

15 October 2012

Third Quarter 2012 Groundwater Monitoring Report

**Former Powerine Refinery
12345 Lakeland Road, Santa Fe Springs, CA**

**SLIC No. 0318, ID No. 2040071
CAO 97-118**

Prepared on Behalf of

**Isola Law Group, LLP
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Prepared for

**Regional Water Quality Control Board
Los Angeles Region**

Prepared By

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1.0 INTRODUCTION

On behalf of Isola Law Group, LLP, Murex Environmental (Murex) has prepared this *Third Quarter 2012 Groundwater Monitoring Report* for the former Powerine Refinery property located at 12345 Lakeland Road in Santa Fe Springs, California (Site; **Figure 1**).

1.1 Purpose

The objective of the quarterly groundwater monitoring is to evaluate groundwater quality beneath the site and adjacent properties (**Figure 2**) and to provide regular updates to the Regional Water Quality Control Board, Los Angeles Region (RWQCB). This report presents the groundwater monitoring activities performed between August 17, 2012 and September 7, 2012, in accordance with the RWQCB Cleanup and Abatement Order (CAO) No. 97-118.

1.2 Site Description and History

The Site is approximately 55 acres in size and is bordered to the north by Florence Avenue, to the south by Lakeland Road, and to the east by Bloomfield Avenue (**Figure 2**). Commercial/light industrial properties border the site to the west. The site was operated as an oil refinery from the 1930s until July 1995. Historical aerial photographs indicate that the western portion of the site may have been used for agricultural purposes from approximately 1928 to 1938. Oil production-related structures such as ponds and aboveground holding tanks may have also been located onsite during this time period (Haley & Aldrich, Inc. [Haley & Aldrich], 2005). The refinery is not currently in operation; however, some of the refinery structures remain onsite. These structures are scheduled to be removed prior to the redevelopment of the property for commercial/light industrial use.

Previous refining operations included processing crude oil into several grades of fuel including kerosene, leaded gasoline and aviation fuel, unleaded gasoline, jet fuel, high and low-sulfur diesel, fuel oil, and petroleum coke. Soil and groundwater quality beneath and in proximity to the site have been impacted by past site operations. Soil and groundwater investigations are being conducted pursuant to a CAOs (No. 97-118) issued by the RWQCB to Powerine Oil Company (CENCO Refining Company) in 1997 (Haley & Aldrich, 2005).

2.0 GROUNDWATER SAMPLING ACTIVITIES

Quarterly groundwater monitoring has been conducted since August 1986. The previous monitoring event was performed by Murex in May 2012. The following subsections summarize work completed during the third quarter 2012 monitoring event.

2.1 Monitoring Network

The quarterly groundwater monitoring program currently includes the existing 59 wells, as listed in **Table I** and shown on **Figure 2**. These wells include:

- Twenty-two onsite groundwater monitoring wells: MW-101, MW-103, MW-104A, MW-105, MW-201, MW-202, MW-204, MW-205, MW-504, MW-701, MW-702, MW-703, MW-704, MW-705, MW-706, W-9, W-10, W-11, W-12, W-17A, W-17B, and W-17C;
- Twenty-five downgradient offsite groundwater monitoring wells of which:
 - Four are located on the former Lakeland (aka "Coaster") property: MW-501A, MW-502, MW-503B, and MW-707; and
 - Twenty-one are located on the Metropolitan State Hospital (MSH) property: MW-600A, MW-601A, MW-603, MW-604, MW-605, MW-606, MW-607, MW-708, MW-709, MW-710, MW-711, MW-712, MW-713, MW-714, MW-715, W-14A, W-14B, W-14C, W-15A, W-15B, and W-15C;
- Seven offsite groundwater monitoring wells located to the southeast on the Walker property including: EW-1, W-1, W-3A, W-4, W-16A, W-16B, and W-16C;
- Three offsite groundwater monitoring wells located to the east on the Bloomfield property that include: MW-106A, MW-107A, and MW-203; and
- Two onsite, deep, former water production wells identified as W-7 and W-8.

2.2 Groundwater Gauging

Murex inspected and measured the depth to groundwater in all 59 of the wells on August 17, 2012. During gauging, wells are also checked for the presence and thickness of free-phase petroleum hydrocarbons (FPPH) product. Of those, 19 wells were dry, and 4 contained free-phase petroleum hydrocarbon (FPPH).

Table II summarizes the groundwater elevation and free product thickness measurements.

2.3 Free-Phase Petroleum Hydrocarbon (FPPH) Measurements

Wells that initially exhibit the presence of FPPH are purged until they become dry or until approximately 6 to 10 well volumes are evacuated. Thereafter, the wells are inspected for the return of FPPH and if present, its thickness is measured over longer and longer time intervals (in general 1 hour, 2 hours, 4 hours, 24 hours, 3 days, 7 days, and 10 days).

For wells in which FPPH does not return within the first day, groundwater is sampled for analysis.

Further discussion of the wells exhibiting free product is presented in Section 3.2.

2.4 Groundwater Purging

The groundwater monitoring wells that contained groundwater, with the exception of production wells W-7 and W-8, were purged via a dedicated vacuum stinger that was connected to a truck-mounted vacuum pump truck operated by Nieto & Sons. W-7 and W-8 are deep production wells and are sampled without purging water from them first. During purging, extracted groundwater volume and quality were recorded. The parameters measured during purging were temperature, pH, electrical conductivity, dissolved oxygen (DO), oxidation-reduction potential (ORP), color, and odor. The results of the field parameter testing are summarized in **Table IV**. Purged groundwater was disposed of by Nieto & Sons at the wastewater treatment system in operation at the Site.

2.5 Groundwater Sampling and Analysis

Following purging, groundwater samples were collected by disposable bailer from the wells and placed in sample containers and stored in pre-cooled ice chests and transported under proper chain-of-custody (COC) procedures to Sunstar Laboratories, Inc. (Sunstar Labs) of Lake Forest, California, California Department of Public Health Environmental Laboratory Accreditation Program (ELAP) #2250. All collected samples were analyzed for the following:

- Total petroleum hydrocarbons as gasoline (TPHg) by U.S. Environmental Protection Agency (USEPA) Method 8015M, and
- Volatile organic compounds (VOCs) with oxygenates by USEPA Method 8260B.

Results of these analyses are summarized in **Table III** (Summary of VOCs, Oxygenates, TPH and Emergent Chemicals). Results of the field-measured parameters are shown in **Table IV**.

2.6 Quality Assurance/Quality Control

In accordance with the Quality Assurance/Quality Control (QA/QC) plan, Murex collected and submitted field duplicate samples and trip blanks for laboratory analysis as a quality assurance/quality control measure.

2.6.1 Trip Blanks

Trip blanks (provided by SunStar Lab) accompanied each daily groundwater sample shipment to evaluate the potential contamination of field samples during storage and transport. Trip blanks were analyzed for VOCs only.

2.6.2 Duplicates

Duplicate samples, which assess the precision of the laboratory analyses, were collected from wells MW-701, MW-702, and MW-703. This represents a duplicate frequency equal to approximately 13% relative to the total number of wells sampled. The duplicates followed the same analytical protocols as their respective primary samples. The results of the duplicate analyses are shown in the results tables beside the original sample result.

2.6.3 Equipment Blanks

Equipment blanks were not collected because dedicated stingers were used to purge the wells and new disposable bailers were used for sampling, therefore eliminating cross-contamination between wells during the purging and sampling process.

2.6.4 Laboratory QA/QC Program

Laboratory QA/QC reports were reviewed to confirm proper completion of data validation tests, including batch QC results, method blanks, laboratory control samples, matrix spikes, and duplicates. The results of lab QC tests were within acceptable limits.

3.0 RESULTS & DISCUSSION

This section presents the results of the third quarter 2012 groundwater monitoring event. As mentioned earlier in the report, well completion details are provided in **Table I**. Groundwater level measurements and groundwater elevations are summarized in **Table II**. Comprehensive analytical results, including historical and recent results, are compiled in **Tables III**. **Table IV** contains a summary of bio-attenuation and field-measured parameter readings.

Figure 3 shows the groundwater elevation measured at each monitoring well, as well as the overall gradient and direction of groundwater flow. **Figure 4** depicts the concentrations and estimated contour lines of TPHg measured in each well, and **Figure 5** shows similar concentrations and contour lines for benzene and MTBE.

Well measurement and groundwater sampling forms are attached as **Appendix A**. Laboratory reports and completed COCs are included in **Appendix B**.

The presentation of the chemical testing results in this report does not distinguish between site- and non-site-related constituents although there are indications of non-site-related contamination in groundwater, which is discussed further in Section 4.3.

3.1 Groundwater Surface Elevations and Gradient

Groundwater surface elevations were calculated for each well by subtracting the water level measurement from the top of casing elevation (**Tables I and II**). Groundwater elevations were adjusted for wells containing FPPH, assumed to have a relative density of 0.80, which is typical for mean density of various petroleum hydrocarbon mixtures. Groundwater elevations, contour lines, flow direction and gradient are shown on **Figure 3**.

Based on groundwater level measurements obtained on August 17, 2012, first-encountered groundwater beneath the site vicinity ranges in elevation from 16.72 to 51.13 feet above mean sea level (ft-amsl). Wells W-7 and W-8 are production wells, with multiple screens situated deeper than 500 feet bgs. Their elevations were higher, between 52.59 and 67.00.

In general, groundwater elevations were similar to those measured in the second quarter 2012 monitoring event. Groundwater elevations had exhibited steady decreases for several years until the third quarter 2010, when they experienced a significant increase. The increase continued in the fourth quarter 2011 and has apparently leveled off. As a

whole, the average change in groundwater elevation over all the wells measured was a decrease of approximately 1.03 feet from the second quarter 2012 sampling event. Appendix C includes hydrographs depicting the change in groundwater elevation over time in the A, B and C screened horizons, respectively.

The average horizontal groundwater gradient is approximately 0.008 foot per foot (ft/ft), as shown in **Figure 3**, which was similar to the previous monitoring period, and represents what is considered a moderately steep gradient. The groundwater flow direction originates from the northeast and turns south across the area of study. This flow direction is relatively consistent with those historically reported in previous investigations.

3.2 Free-Phase Petroleum Hydrocarbons

Measurable FPPH, also known as light non-aqueous-phase liquid or LNAPL, was detected in monitoring wells EW-1, W-15A, W-11, and MW-708 (**Table II**). Well W-15A exhibited measureable FPPH for the fifth time during this event. FPPH was measured at a thickness of 1.12 feet in W-15A, 1.03 feet in EW-1, 0.11 feet in MW-708 and 0.09 feet in W-11. During previous monitoring events going back many years, FPPH was also historically detected in wells MW-101, MW-103, MW-104, MW-201, MW-202, MW-203, MW-204, MW-205, MW-206, MW-501, MW-502, MW-503, MW-503B, MW-504, MW-600, MW-600A, MW-601, MW-601A, W-3A. The majority of these wells are now dry.

3.3 Groundwater Analysis

Groundwater analytical results are summarized in **Tables III**, and laboratory reports and completed COCs are included in **Appendix B**.

3.3.1 TPHg

Third quarter 2012 TPHg results are presented in **Table III** and **Figure 4**. TPHg was detected in 34 out of the 39 wells sampled at concentrations ranging from 0.061 milligrams per liter (mg/L) in monitoring well W-16B to 2,8 mg/L in monitoring well MW-711.

Well W-15A exhibited the largest decrease among all the wells from 2,100 mg/L to 23 mg/L.

The most significant increase was observed in monitoring well W-10, where TPHg concentrations rose from 1 mg/L in the second quarter 2012 to 8.2 mg/L in the third quarter 2012. Well W-14A has been non-detect (<50 µg/L) historically, but exhibited an elevated TPH-g concentration of 1.6 mg/L in the third quarter 2012. One other significant increase in TPHg concentration was observed in well W-11, which rose to 7.4 mg/L in the

third quarter, from 1.8 mg/L in the second quarter 2012. The most significant decreases in TPH-g were observed in wells MW-503B, MW-708, and MW-715.

3.3.2 VOCs and Oxygenates

A summary of VOC and oxygenate analytical data for the third quarter 2012 is presented in **Table III**, along with historical data from previous monitoring events.

3.3.2.1 Benzene, Toluene, Ethylbenzene, and Xylenes (BTEX)

Benzene was detected in 26 samples from the 39 total wells sampled. Concentrations ranged from 0.75 µg/L in well MW-701 to 3,100 µg/L in well W-10 (**Figure 5**) (23 of these wells contained benzene at concentrations exceeding the 1 µg/L California Maximum Contaminant Level (MCL) in drinking water). Benzene concentrations in the third quarter of 2012 were similar to concentrations observed during previous monitoring events.

Of the other BTEX compounds analyzed for, toluene was detected in samples from 15 wells at concentrations ranging from 0.56 µg/L in MW-715 to 2,000 µg/L in MW-711. Toluene was detected above its California MCL (150 µg/L) in 2 wells this quarter.

Ethylbenzene was detected in the samples collected from 16 wells at concentrations ranging from 0.52 µg/L in MW-703 to 710 µg/L in MW-708. Ethylbenzene was detected at or above its California MCL (300 µg/L) in 4 wells this quarter.

Total xylenes, including the *ortho*, *meta*, and *para* isomers, were detected in samples from 16 wells at concentrations ranging from 0.52 µg/L in MW-15B to 3,300 µg/L in W-15A. Xylene was detected above the California MCL (1,750 µg/L) in 2 wells this quarter.

3.3.2.2 Methyl tert-Butyl Ether (MTBE)

The oxygenate MTBE was detected in samples from 17 wells at concentrations ranging from 1.2 µg/L in MW-715 to 410 µg/L in MW-713 (**Figure 6**). The 13 µg/L drinking water MCL established for MTBE in California was exceeded in 6 wells.

3.3.2.3 tert-Butyl Alcohol (TBA)

TBA, another oxygenate and a byproduct of MTBE breakdown, was detected in 11 of the 39 sampled wells at concentrations ranging from 10 µg/L in well W-15C to 97 µg/L in well MW-712. The California Notification Level (formerly Action Level) and Response Level for Drinking Water for TBA is 12 µg/L. A total of 8 out of the 11 TBA detections exceeded this limit for this quarter.

3.3.2.4 Other VOCs

In addition to the aforementioned constituents of concern, several VOCs were detected in groundwater during this monitoring event. Some of these compounds, such as naphthalene, n-propylbenzene and trimethylbenzene, for instance, are related to petroleum hydrocarbon releases.

Conversely, also detected were chlorinated solvents, such as tetrachloroethylene (PCE), trichloroethene (TCE), 1,1-dichloroethane (1,1-DCA), 1,1-dichloroethene (1,1-DCE), 1,2-dichloroethane (1,2-DCA), and cis- and trans-1,2-dichloroethene (cis-1,2-DCE and trans-1,2-DCE), among others, which we believe are the result of off-site contamination entering the Powerine well network. Chlorinated solvents were detected in the following wells this quarter: MW-107A, MW-701, MW-702, MW-703, MW-704, MW-705, MW-706, MW-707, MW-710, MW-711, W-10, W-11, W-14B, W-14C, W-15C, W-16B, W-16C, and W-17A.

The most significant detections of chlorinated compounds are described as follows: to the southwest, in wells MW-710 and W-14B, PCE and TCE were detected between 8.9 and 150 µg/L.

The U.S. EPA and the RWQCB are aware of the chlorinated solvents in groundwater through their oversight of the cleanup of a Superfund site located to the north, and upgradient of the Site. Murex provides this data to the U.S. EPA on a periodic basis.

3.3.3 Biodegradation Parameters

Biodegradation of TPHg most commonly occurs by aerobic, nitrate-reducing, ferric iron (Fe^{3+})-reducing, sulfate-reducing, or methanogenic respiration. TPHg and BTEX serve as electron donors for microbial metabolism in aerobic biodegradation. Electron acceptors include oxygen, nitrate, Fe^{3+} , sulfate, and carbon dioxide.

In general, if sufficient oxygen is present, aerobic biodegradation will occur first. When DO concentrations fall below approximately 0.5 mg/L (an anoxic environment), denitrification will begin if nitrate is present. After most nitrate has been consumed, Fe^{3+} reduction will begin if Fe^{3+} is present. Fe^{3+} concentrations will decrease, while Fe^{2+} concentrations will increase. After most Fe^{3+} is consumed, sulfate reduction will begin if sulfate is available. After most sulfate has been consumed, methanogenesis, which involves carbon dioxide as an electron acceptor, begins. During methanogenesis, methane concentrations increase (Department of the Navy, 1998).

The results discussed below indicate that biodegradation, whether aerobic or anaerobic, may be occurring in the local environment around the wells that were sampled for biodegradation parameters.

3.3.3.1 Field Measured Parameters

Field pH, DO, and oxidation-reduction potential (ORP) data were collected from 34 monitoring wells using an YSI 556 water quality meter (**Table IV**). The meter was inserted into grab water samples, collected from the vacuum truck intake during well purging.

- **pH** – This parameter quantifies the acidity or alkalinity of a solution. Results ranged from 7.50 to 8.62 with a few exceptions, indicating a neutral to slightly alkaline environment that is suitable for the growth of alkalophilic bacteria and microorganisms that thrive at a circumneutral pH.
- **DO** – Oxygen is the preferred electron acceptor in the biodegradation of petroleum hydrocarbons. When aerobic biodegradation occurs, DO concentrations are expected to decline as microorganisms use the electron acceptor during respiration. The vacuum stinger method used to purge the wells introduces oxygen into the groundwater. Therefore, DO data is not representative of the actual oxygen content. It is likely very low in wells exhibiting higher TPH concentrations, since oxygen is the first compound used up in the biological degradation of petroleum.
- **ORP** – This parameter is a measure of electron activity, which reflects the oxidizing or reducing nature of the environment. ORP values are generally negative under reducing conditions (gaining electrons) and positive under oxidizing conditions (losing electrons). Negative ORP values were observed in 24 of the 34 wells measured.

ORP values ranged from -226.7 mV in well MW-107A to 125.7 mV in Well W-15C. **Figure 7** illustrates iso-concentration contour lines for ORP.

Hydrogen sulfide (produced from the reduction of sulfate in groundwater, after oxygen is used up) was detected during purging of wells exhibiting elevated TPH concentrations and low or negative ORP values, which is consistent with our understanding of the conceptual site model, and indicate that aerobic degradation of the hydrocarbons has stalled due to dissolved oxygen limitations. It is likely that the introduction of air (via bioventing for example) will enhance the process of stimulating the aerobic degradation of the constituents of concern at the site.

3.3.4 QA/QC

Duplicate sample results are provided alongside their primary sample results in **Tables III**. The results show similar concentrations of the analytes of interest as in their respective primary samples, as would be expected for an ELAP-certified laboratory.

Trip blank samples did not indicate the presence of VOCs, which indicates proper sample storage and confirms a lack of cross-contamination during transport.

Laboratory method blanks did not indicate the presence of VOCs, which indicates that laboratory detection equipment did not exhibit cross-contamination.

Laboratory control and laboratory spike samples exhibited results within acceptable limits, indicating no matrix interference and that the detection equipment was working properly.

4.0 SUMMARY & CONCLUSIONS

Groundwater monitoring was performed at and in the vicinity of the former CENCO refinery in August 2012 as part of an ongoing groundwater monitoring plan intended to evaluate chemical impacts, contaminant sources, and overall groundwater quality. This groundwater monitoring event included inspecting/gauging water levels in 59 wells and collecting samples from 39 of those wells for analysis of TPHg and VOCs.

4.1 Groundwater Surface Elevations and Gradient

A horizontal groundwater gradient of approximately 0.008 ft/ft was calculated for the third quarter groundwater monitoring event. This is consistent with historical gradient data for the site vicinity. Averaging all the wells exhibiting measurable groundwater, elevations have decreased (although it rose in select individual wells) by approximately 1.03 feet since the previous quarter. Groundwater flows from the northeast and turns due south across the area of study, which is consistent with historical measurements. Deep-screened production wells W-7 and W-8 exhibited decreases of over 5 vertical feet in groundwater elevation this quarter; this is likely due to the cessation of municipal water pumping operations in near proximity of the site.

4.2 Free-Phase Petroleum Hydrocarbons

Measureable free product was identified in four wells EW-1, W-15A, W-11, and MW-708. These wells have exhibited FPPH in the past; although it first appeared in W-15A in 2011. The FPPH thickness measured in these wells (1.03, 1.12, 0.09, and 0.11 feet, respectively) does not necessarily reflect FPPH actual thickness in the surrounding aquifer as fluctuations in water levels and permeability factors can influence FPPH accumulation in monitoring wells.

Murex has conducted a study to compare the characteristics (i.e., “fingerprints”) of FPPH samples taken from several of the monitoring wells, including wells that do not currently contain FPPH. Samples of FPPH were collected from wells W-11, MW-503B, MW-708, EW-1, and W-15A. All the samples were then submitted for fingerprinting analysis to Zymax Forensics Laboratory in Escondido, California on September 21, 2011. The findings of this study were submitted to the RWQCB on January 25, 2012 as an addendum to the June 30, 2011 FPPH Investigation Report.

4.3 Groundwater Quality

The highest concentrations of TPHg detected during this sampling event were beneath the Coaster property and the northern and southern portions of the MSH (see **Figure 4**). The maximum concentration of TPHg was 28 mg/L in well MW-711, 23 mg/L in well W-15A, 17 mg/L in well MW-708 and 10 mg/L in well MW-712. Wells MW-708, MW-711, and MW-712 are located south of the Coaster property.

Benzene, toluene, ethylbenzene, xylene, and other compounds associated with petroleum hydrocarbons largely mimic TPHg in their presence and relative concentrations in the areas associated with the plume. The maximum concentration of benzene was detected in well W-10, at 3,100 µg/L, located on the former Powerine Refinery property (see **Figure 5**). The maximum concentration of MTBE was detected in well MW-713 at 410 µg/L, located in the central portion of the MSH (**Figure 6**) at a distance of approximately 2,000 feet. It is likely that the impacts present in well W-15A are resultant from releases other than those sourced from the refinery property.

Changes in the petroleum hydrocarbon plume may be reflective of the recent increases in groundwater elevation which have exhibited their fifth increase after a long period of steep decline. Murex will continue to monitor the hydrocarbon plume within the well network and provided regular updates to the RWQCB through the monitoring and reporting program.

4.3.1 Off-Site Sources of Petroleum Hydrocarbons

In addition to historic releases from the Site, data collected from the monitoring well network (see **Figures 4, 5, and 6**) exhibits evidence of other sources. Some observations that would support the presence of alternative sources are: (1) the comparatively clean appearance of FPPH in well W-15A versus the weathered or cloudy appearance of FPPH in wells EW-1, MW-503B, and MW-708; (2) the historical presence of FPPH in wells EW-1 and W-3A, which are located east and cross-gradient of the former refinery.

In connection with the study of the FPPH samples submitted for fingerprinting analysis, Murex is also reviewing literature and maps to identify other possible sources of petroleum hydrocarbons in the vicinity of the Site as well as to distinguish Site-related contamination from contamination originating elsewhere.

4.3.2 Discussion of Solvent Detections

Data collected from the monitoring well network (see **Table III**) exhibits the presence of substances not linked to historic releases at the Site, including chlorinated solvents. The

following observations were made regarding the additional detected chemicals in groundwater within the Powerine monitoring well network.

During this sampling event, elevated PCE and TCE concentrations (i.e., between 8.9 and 150 µg/L) were measured in wells W-14B and MW-710. This is consistent with previously measured high values from MW-710. Levels of PCE and TCE found in W-14B increased for the past several monitoring periods since January 2011. Historically, these compounds were also detected in wells MW-107A, MW-701, and MW-14C.

Cis-1,2-DCE and trans-1,2-DCE were found in 17 of the wells sampled at concentrations consistent with historical levels. Well W-16B exhibited decreased concentrations of both cis-1,2-DCE (6 µg/L) and trans-1,2-DCE (3.5 µg/L) in the third quarter.

1,1-DCE was detected at an elevated concentration of 60 µg/L in well W-14B and 56 µg/L in well MW-710. Historically, wells W-14B and W-14C also exhibited elevated concentrations of these chemicals.

The U.S. EPA and the RWQCB are aware of the chlorinated solvents in groundwater through their oversight of the cleanup of a Superfund site located to the north, and upgradient of the Site. Murex provides this data to the U.S. EPA on a periodic basis.

4.3.3 Assessment of Vapor Risk from Groundwater Plume

At the direction of the DTSC, Murex has conducted an off-site soil gas sampling study. The results, presented to the RWQCB and DTSC in the November 7, 2011 *Off-Site Soil Gas Survey Report*, indicate that the petroleum hydrocarbon plume does not pose a threat to off-site receptors as a result of volatilization from groundwater.

4.4 Biodegradation

Intrinsic biodegradation continues to be viable, in at least some areas of the site and vicinity, based on nitrate, sulfate, Fe^{2+} , methane, alkalinity, and ORP results from previous sampling events conducted at the site. Oxygen has been depleted, as evident by the presence of hydrogen sulfide in the deep subsurface (sulfate reduction reactions result in the formation of hydrogen sulfide). Since the main limiting factor for biodegradation of petroleum hydrocarbons is oxygen, the mechanical introduction of oxygen could stimulate aerobic biodegradation of the VOCs present in groundwater.

Murex conducted pilot testing at the site to determine the appropriate remedial technology which will effectively enhance biodegradation of the constituents of concern

and reduce the extent of groundwater contamination. Based on the results and data collected during pilot testing, it appears that a combination of remedial technologies would be suited for the site. The results and conclusions of this study were submitted to the RWQCB in the Pilot Testing Report dated November 21, 2011.

5.0 REFERENCES

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6.0 CLOSING

I certify under penalty of law that this document and all enclosures were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. The information contained herein is, to the best of my knowledge and belief, true, accurate and complete, however, is reliant upon public agency records, which could be incomplete or inaccurate beyond our control.

Should you have any questions or concerns regarding the material herein, please do not hesitate to contact the undersigned at (714) 508-0800.

Sincerely,

MUREX ENVIRONMENTAL, INC.



Jeremy R Squire, P.E.
Senior Engineer



Table I
Well Construction Details
Former CENCO Refinery
Santa Fe Springs, CA

Well Installation					Completion Data															Location	Reference(s) ¹	
Well ID	Date	By	Elevation		Hole Diameter (in)	Casing Diameter (in)	Screen		Depth (ft)						Elevation (ft)							
			Ground Surface	Top of Casing			Slot	Length	Sand Pack		Slotted		Total Depth		Sand Pack		Slotted		Total Depth			
									(ft)	(ft amsl)	(in)	(ft)	Top	Bottom	Top	Bottom	Casing	Hole	Top			Bottom
Groundwater Monitoring Wells																						
EW-1	6/11/1905	Emcon	146.85	146.85	-	4	-	-	-	-	-	-	113.5	-	-	-	-	-	-	-	Walker	Versar (2000)
MW-101	8/28/1985	IT	145.19	138.00	12	4	-	20	69.5	90	70	90	90	95	66	45	65	45	45	40	Refinery	IT (1986); Versar (2000); ARCADIS (2003)
MW-103	8/30/1985	IT	137.18	139.36	12	4	-	20	-	-	79	99	99	99.5	-	-	58	38	-	37	Refinery	IT (1986); Versar (2000); ARCADIS (2003)
MW-104	8/24/1985	IT	-	-	12	4	-	20	-	-	76.5	96.5	97	99	-	-	66	46	-	43	Refinery	IT (1986); Versar (2000); ARCADIS (2003)
MW-104A	6/1999	Versar	142.38	144.13	-	4	-	-	-	-	65	100	100	-	-	-	-	-	-	-	Refinery	Versar (2000); measured well depth
MW-105	12/1995	TriHydro		141.16	-	4	-	-	-	-	68	98	98	100	-	-	-	-	-	39	Refinery	Versar (2000); measured well depth
MW-106	12/1995	TriHydro	-	-	-	4	-	-	-	-	74	104	106.45	106	-	-	-	-	42	42	Bloomfield	Versar (2000)
MW-106A	2/20/2006	N&M	152.92	152.81	8	4	0.02	27	82	110	83	110	110	110	70	42	69	42	42	42	Bloomfield	Well completion report
MW-107	12/1995	TriHydro	-	-	-	4	-	-	-	-	75	105	107.55	108	-	-	-	-	41	41	Bloomfield	Versar (2000)
MW-107A	2/20/2006	N&M	147.37	147.02	8	4	0.02	27	82	110	83	110	110	110	64	36	63	36	36	36	Bloomfield	Well completion report
MW-201	9/10/1985	IT	134.86	135.65	12	4	-	30	66	103	72	102	102	103	67	30	61	31	31	30	Refinery	IT (1986); Versar (2000); ARCADIS (2003)
MW-202	9/23/1985	IT	139.00*	140.62	16	4	-	30	58	105	63	93	93	105	70	23	65	35	35	23	Refinery	IT (1986); Versar (2000); ARCADIS (2003)
MW-203	9/13/1985	IT	144.08	143.71	12	4	-	30	64.7	107	77	107	107	119	78	36	66	36	36	24	Bloomfield	IT (1986); Versar (2000); ARCADIS (2003)
MW-204	9/19/1985	IT	141.15	142.90	12	4	-	30	67.5	105	73.3	103.3	103.3	105	73	35	67	37	37	35	Refinery	IT (1986); Versar (2000); ARCADIS (2003)
MW-205	9/14/1985	IT	140.00*	140.09	12	4	-	30	65.5	103	69.5	99.5	99.5	104.5	73	35	69	39	39	34	Refinery	IT (1986); Versar (2000); ARCADIS (2003)
MW-206 ²	9/18/1985	IT	-	-	-	4	-	30	62.5	104	71	101	101	104	67	26	59	29	29	26	Lakeland	IT (1986); Versar (2000); ARCADIS (2003)
MW-501	6/9/1986	IT	-	-	-	4	-	30	-	-	71	101	101	107	-	-	58	28	-	22	Lakeland	IT (1986); Versar (2000); ARCADIS (2003)
MW-501A	3/1999	ATC	131.26	130.89	-	4	-	-	-	-	75	95	95	95	-	-	-	-	-	35	Lakeland	Versar (2000); measured well depth
MW-502	6/11/1986	IT	131.88	131.00	-	4	-	30	-	-	74	104	104	104	-	-	54	24	-	24	Lakeland	IT (1986); Versar (2000); ARCADIS (2003)
MW-503	6/13/1986	IT	-	-	-	4	-	30	-	-	80.5	110.5	110.5	111	-	-	51	21	-	20	Lakeland	IT (1986); Versar (2000); ARCADIS (2003)
MW-503B	1/1999	Versar	133.03	132.66	-	4	-	-	-	-	69	109	109	109	-	-	-	-	-	21	Lakeland	Versar (2000); measured well depth
MW-504	6/18/1986	IT	-	137.18	-	4	-	50	-	-	58	118	95.76	118	-	-	77	17	-	17	Refinery	IT (1986); Versar (2000); ARCADIS (2003)
MW-600	8/15/1990	ENSR	-	-	-	4	-	30	-	-	78	108	108	110	-	-	42	12	-	10	MSH	IT (1986); Versar (2000); ARCADIS (2003)
MW-600A	6/1999	Versar	123.28	124.26	-	4	-	-	-	-	-	-	92.7	100	-	-	-	-	-	20	MSH	Versar (2000); measured well depth
MW-601	8/17/1990	ENSR	-	-	-	4	-	30	-	-	85	115	115	117	-	-	40	10	-	8	MSH	IT (1986); Versar (2000); ARCADIS (2003)
MW-601A	6/1999	Versar			-	4	-	-	-	-	65	100	100	100	-	-	-	-	-	27	MSH	Versar (2000); measured well depth
MW-603	12/1995	TriHydro	121.40	120.95	-	4	-	-	-	-	70	100	100	100	-	-	-	-	-	19	MSH	Versar (2000); measured well depth
MW-604	12/1995	TriHydro	140.52	140.07	-	4	-	-	-	-	73	103	103	103	-	-	-	-	-	35	MSH	Versar (2000); measured well depth
MW-605	12/1995	TriHydro	117.40	116.82	-	4	-	-	-	-	65	95	95	95	-	-	-	-	-	20	MSH	Versar (2000); measured well depth
MW-606	12/1995	TriHydro	116.90	116.06	-	4	-	-	-	-	70	100	100	100	-	-	-	-	-	14	MSH	Versar (2000); measured well depth
MW-607	12/1995	TriHydro	128.92	128.28	-	4	-	-	-	-	77	107	107	107	-	-	-	-	-	19	MSH	Versar (2000); measured well depth
W-1	12/1995	TRC	145.19	144.81	-	4	-	-	-	-	70	129	129	130	-	-	-	-	-	13	Walker	IT (1986); Versar (2000)
W-2 ²	12/1995	TRC	-	-	-	4	-	-	-	-	84	129	129	129	-	-	-	-	-	-	Walker	IT (1986); Versar (2000)
W-3 ²	12/1995	TRC	-	-	-	4	-	-	-	-	82	122	122	124	-	-	-	-	-	-	Walker	IT (1986); Versar (2000)
W-3A	-	-	137.18	136.79	-	4	-	-	-	-	-	-	111.52	115	-	-	-	-	-	21	Walker	Versar (2000)
W-4	12/1995	TRC	143.18	142.56	-	4	-	-	-	-	79	129	130	-	-	-	-	-	-	-	Walker	IT (1986); Versar (2000)
W-9	8/22/2006	TA	140.37	139.84	8	2	0.01	35	73	111	75	110	110	120.5	66	28	64	29	29	19	Refinery	ARCADIS BBL (2006)
W-10	8/21/2006	TA	141.39	140.71	8	2	0.01	35	73	111	75	110	110	130	67	29	65	30	30	10	Refinery	ARCADIS BBL (2006)
W-11	8/25/2006	TA	141.96	142.10	8	2	0.01	35	73	111	75	110	110	119	68	30	66	31	31	22	Refinery	ARCADIS BBL (2006)
W-12	8/23/2006	TA	142.93	145.15	8	2	0.01	35	75	114	75	114	114	120.5	69	30	69	30	30	24	Refinery	ARCADIS BBL (2006)

Table I
Well Construction Details
Former CENCO Refinery
Santa Fe Springs, CA

Well Installation					Completion Data															Location	Reference(s) ¹			
Well ID	Date	By	Elevation		Hole Diameter (in)	Casing Diameter (in)	Screen		Depth (ft)						Elevation (ft)									
			Ground Surface	Top of Casing			Slot	Length	Sand Pack		Slotted		Total Depth		Sand Pack		Slotted		Total Depth					
									(ft)	(ft amsl)	(in)	(ft)	Top	Bottom	Top	Bottom	Casing	Hole	Top			Bottom	Top	Bottom
W-14A	1/22/2008-1/30/2008	Arcadis	115.23	114.71	9	2	0.02	45	67	112	67	112	112	200	48	3	48	3	3	-85	MSH	ARCADIS (2008)		
W-14B			115.00*	114.78	9	2	0.02	10	157	167	157	167	167	200	-42	-52	-42	-52	-52	-85				
W-14C			115.00*	114.78	9	2	0.02	10	185	195	185	195	195	200	-70	-80	-70	-80	-80	-85				
W-15A	11/27/2007-12/10/2007	Arcadis	127.91	127.59	10	2	0.02	45	78	126	80	125	125	200	50	2	48	3	3	-72	MSH	ARCADIS (2008)		
W-15B			128.00*	127.61	10	2	0.02	10	143	156	145	155	155	200	-15	-28	-17	-27	-27	-72				
W-15C			128.00*	127.59	10	2	0.02	10	188	200	190	200	200	200	-60	-72	-62	-72	-72	-72				
W-16A	10/24/2007-10/30/2007	Arcadis	147.89	147.60	10	2	0.02	45	76	125	78	123	123	200	72	23	70	25	25	-52	Walker	ARCADIS (2008)		
W-16B			148.00*	147.68	10	2	0.02	10	143	156	152	162	162	200	5	-8	-4	-14	-14	-52				
W-16C			148.00*	147.67	10	2	0.02	10	184	200	186	196	196	200	-36	-52	-38	-48	-48	-52				
W-17A	1/31/2008-2/8/2008	Arcadis	141.60	141.38	9	2	0.02	45	63	108	63	108	108	200	78	33	78	33	33	-59	Refinery	ARCADIS (2008)		
W-17B			142.00*	141.37	9	2	0.02	10	159	169	159	169	169	200	-18	-28	-18	-28	-28	-59				
W-17C			142.00*	141.38	9	2	0.02	10	190	200	190	200	200	200	-49	-59	-49	-59	-59	-59				
MW-701	12/6/2010	Murex	136.87	139.48	12	4	0.02	50	77	130	80	130	130	130	59.87	6.87	56.87	6.87	6.87	6.87	Refinery	Murex (2011)		
MW-702	12/15/2010	Murex	140.90	140.12	12	4	0.02	50	77	130	80	130	130	130	63.90	10.90	60.90	10.90	10.90	10.90	Refinery	Murex (2011)		
MW-703	12/10/2010	Murex	134.73	137.23	12	4	0.02	50	77	130	80	130	130	130	57.73	4.73	54.73	4.73	4.73	4.73	Refinery	Murex (2011)		
MW-704	12/14/2010	Murex	137.93	137.66	12	4	0.02	50	77	130	80	130	130	130	60.93	7.93	57.93	7.93	7.93	7.93	Refinery	Murex (2011)		
MW-705	12/13/2010	Murex	139.16	141.94	12	4	0.02	50	77	130	80	130	130	130	62.16	9.16	59.16	9.16	9.16	9.16	Refinery	Murex (2011)		
MW-706	12/9/2010	Murex	139.68	139.30	12	4	0.02	50	77	130	80	130	130	130	62.68	9.68	59.68	9.68	9.68	9.68	Refinery	Murex (2011)		
MW-707	12/23/2010	Murex	128.86	128.43	12	4	0.02	50	77	130	80	130	130	130	51.86	-1.14	48.86	-1.14	-1.14	-1.14	Getty Drive	Murex (2011)		
MW-708	1/12/2011	Murex	126.73	126.26	12	4	0.02	50	77	130	80	130	130	130	49.73	-3.27	46.73	-3.27	-3.27	-3.27	MSH	Murex (2011)		
MW-709	1/26/2011	Murex	140.48	139.78	12	4	0.02	50	77	130	80	130	130	130	63.48	10.48	60.48	10.48	10.48	10.48	MSH	Murex (2011)		
MW-710	1/13/2011	Murex	122.15	121.99	12	4	0.02	50	77	130	80	130	130	130	45.15	-7.85	42.15	-7.85	-7.85	-7.85	MSH	Murex (2011)		
MW-711	1/17/2011	Murex	128.09	127.84	12	4	0.02	50	77	130	80	130	130	130	51.09	-1.91	48.09	-1.91	-1.91	-1.91	MSH	Murex (2011)		
MW-712	1/24/2011	Murex	123.57	123.31	12	4	0.02	50	77	130	80	130	130	130	46.57	-6.43	43.57	-6.43	-6.43	-6.43	MSH	Murex (2011)		
MW-713	1/19/2011	Murex	128.42	128.15	12	4	0.02	50	77	130	80	130	130	130	51.42	-1.58	48.42	-1.58	-1.58	-1.58	MSH	Murex (2011)		
MW-714	1/20/2011	Murex	129.07	128.87	12	4	0.02	50	77	130	80	130	143	130	52.07	-0.93	49.07	-0.93	-13.93	-0.93	MSH	Murex (2011)		
MW-715	1/27/2011	Murex	116.66	116.22	12	4	0.02	50	77	130	80	130	130	130	39.66	-13.34	36.66	-13.34	-13.34	-13.34	MSH	Murex (2011)		
Groundwater Production Wells																								
					-	-	-	80	-	-	450	530	690	-	-	-	-	-	-	-	Refinery	IT (1986)		
W-7	-		-	141.97	-	-	-	90	-	-	600	690	-	-	-	-	-	-	-	-	Refinery			
W-8	-		-	141.11	-	-	-	-	-	-	-	-	994	-	-	-	-	-	-	-	Refinery			

NOTES:

¹Sources: IT, 1986; Versar, 2000; Arcadis, 2003, 2006, 2008, and 2009; Dan Herlihy Environmental Services, 2006 (as shown).

²Well abandoned

- ft Feet
- in Inches
- MSH Metropolitan State Hospital Property
- amsl Above mean sea level
- TOC Top of casing
- * Value retrieved from Google Earth

Table II
Summary of Groundwater Level Measurements
Former CENCO Refinery
Santa Fe Springs, CA
3Q2012

Well ID	Date	Total Depth (ft)	Depth to Groundwater (ft)	Depth To FPPH (ft)	FPPH Thickness (ft)	Top of Casing Elevation (ft amsl)	Groundwater Elevation (ft amsl)
EW-1	8/17/2012	113.00	106.56	105.53	1.03	146.85	40.29
W-1	8/17/2012	129.61	108.73			144.81	36.08
W-3A	8/17/2012	111.73	DRY			136.79	NA
W-4	8/17/2012	129.71	109.65			142.56	32.91
W-7	8/17/2012	NM	89.38			141.97	52.59
W-8	8/17/2012	NM	74.11			141.11	67.00
W-9	8/17/2012	110.37	90.86			139.84	48.98
W-10	8/17/2012	110.21	96.00			140.71	44.71
W-11	8/17/2012	112.61	96.74	96.65	0.09	142.10	45.36
W-12	8/17/2012	116.10	101.91			145.15	43.24
W-14 A	8/17/2012	112.00	93.03			114.71	21.68
W-14 B	8/17/2012	167.00	92.45			114.78	22.33
W-14 C	8/17/2012	195.00	92.62			114.78	22.16
W-15 A	8/17/2012	125.70	110.87	109.75	1.12	127.59	16.72
W-15 B	8/17/2012	155.60	109.99			127.61	17.62
W-15 C	8/17/2012	197.34	110.58			127.59	17.01
W-16 A	8/17/2012	123.12	112.11			147.60	35.49
W-16 B	8/17/2012	160.25	116.76			147.68	30.92
W-16 C	8/17/2012	196.30	116.52			147.67	31.15
W-17 A	8/17/2012	108.30	95.49			141.38	45.89
W-17 B	8/17/2012	169.60	105.78			141.37	35.59
W-17 C	8/17/2012	200.00	105.87			141.38	35.51
MW-101	8/17/2012	90.72	DRY			138.00	NA
MW-103	8/17/2012	94.70	DRY			139.36	NA
MW-104A	8/17/2012	100.08	93.00			144.13	51.13
MW-105	8/17/2012	100.47	DRY			141.16	NA
MW-106A	8/17/2012	110.00	104.20			152.81	48.61
MW-107A	8/17/2012	109.49	104.07			147.02	42.95
MW-201	8/17/2012	101.60	DRY			135.65	NA
MW-202	8/17/2012	92.55	DRY			140.62	NA
MW-203	8/17/2012	102.30	DRY			143.71	NA
MW-204	8/17/2012	103.10	DRY			142.90	NA
MW-205	8/17/2012	98.27	DRY			140.09	NA
MW-501A	8/17/2012	93.27	DRY			130.89	NA
MW-502	8/17/2012	100.59	DRY			131.00	NA
MW-503B	8/17/2012	108.67	99.57			132.66	33.09
MW-504	8/17/2012	95.76	DRY			137.18	NA
MW-600A	8/17/2012	92.70	DRY			124.26	NA
MW-601A	8/17/2012	89.90	DRY			126.53	NA
MW-603	8/17/2012	97.60	DRY			120.95	NA
MW-604	8/17/2012	103.20	DRY			140.07	NA
MW-605	8/17/2012	93.98	DRY			116.82	NA
MW-606	8/17/2012	99.05	DRY			116.06	NA
MW-607	8/17/2012	107.05	DRY			128.28	NA
MW-701	8/17/2012	130.00	97.71			139.48	41.77
MW-702	8/17/2012	130.00	97.51			140.12	42.61
MW-703	8/17/2012	130.00	99.13			137.23	38.10
MW-704	8/17/2012	130.00	100.93			137.66	36.73
MW-705	8/17/2012	130.00	102.33			141.94	39.61
MW-706	8/17/2012	130.00	98.75			139.30	40.55
MW-707	8/17/2012	130.00	96.40			128.43	32.03
MW-708	8/17/2012	130.00	95.88	95.77	0.11	126.26	30.38
MW-709	8/17/2012	130.00	108.60			139.78	31.18

Table II
Summary of Groundwater Level Measurements
Former CENCO Refinery
Santa Fe Springs, CA
3Q2012

Well ID	Date	Total Depth	Depth to Groundwater	Depth To FPPH	FPPH Thickness	Top of Casing Elevation	Groundwater Elevation
MW-710	8/17/2012	130.00	94.25			121.99	27.74
MW-711	8/17/2012	130.00	101.05			127.84	26.79
MW-712	8/17/2012	130.00	98.14			123.31	25.17
MW-713	8/17/2012	130.00	103.83			128.15	24.32
MW-714	8/17/2012	142.00	104.72			128.87	24.15
MW-715	8/17/2012	134.00	96.30			116.22	19.92

NOTES:

ft Feet
FPPH Free-phase petroleum hydrocarbons
amsl Above mean sea level
NM Not measured, inaccessible
NA Not available/applicable

Table III
Summary of Total Petroleum Hydrocarbon (TPH) and VOC Results
Former Powerine Refinery
Santa Fe Springs, CA
3Q2012

Location	Unit	Date	TPH-g	B	T	E	m/p-X	o-X	MTBE	TBA	NAP	1,2,4-TMB	1,3,5-TMB	PCE	TCE	t1,2-DCE	c1,2-DCE	1,1-DCE	1,1-DCA	1,2-DCA	VC
EW-1	UG/L	11/1/1989	9800	730	16	1400A								<5		9.8			<5	<5	29
EW-1	UG/L	3/1/1990		1800	300	1800								<25		<50			<25	<25	<100
EW-1	UG/L	4/1/1990		1300	290	1600								<1		20	110		<10	<10	<20
EW-1	UG/L	8/21/1998	5000	230	<50	630			<50		150	<50	<50	<50		<50	<50		<50	<50	<100
EW-1	UG/L	1/28/1999	7900	110	<50	540			<50		130	<50	<50	<50		<50	<50		<50	<50	<100
EW-1	UG/L	7/19/1999	8000	110	<25	1000			<25		<250	<25	25	<25		<25	<25		<25	<13	<13
EW-1	UG/L	1/13/2000	NS	NS	NS	NS			NS		NS	NS	NS	NS		NS	NS		NS	NS	NS
EW-1	UG/L	7/31/2000	NS	NS	NS	NS			NS		NS	NS	NS	NS		NS	NS		NS	NS	NS
EW-1	UG/L	2/6/2001	NS	NS	NS	NS			NS		NS	NS	NS	NS		NS	NS		NS	NS	NS
EW-1	UG/L	7/26/2001	NS	NS	NS	NS			NS		NS	NS	NS	NS		NS	NS		NS	NS	NS
EW-1	UG/L	5/6/2002	NS	NS	NS	NS			NS	NS	NS	NS	NS	NS		NS	NS		NS	NS	NS
EW-1	UG/L	9/25/2002	NS	NS	NS	NS			NS	NS	NS	NS	NS	NS		NS	NS		NS	NS	NS
EW-1	UG/L	11/10/2006	4800	65	<4	68	16	<4	<10	<100	42	6.9	<4	<4		8.4	6.3		<4	<4	<10
EW-1	UG/L	2/9/2007	4100	41	<2	39	9.4	<2	<5	<50	26	5.1	2.3	<2		7.8	6.5		<2	<2	<5
EW-1	UG/L	5/10/2007	3300	19	1.5	15	3.7	<4	<10	17	10	2.6	1.4	<4		6.9	6.9		<4	<4	<10
EW-1	UG/L	8/10/2007	3200	36	2.3	14	4.7	0.64	<5	15	20	3.2	1.4	<2		9.9	11		0.35	<2	<5
EW-1	UG/L	2/8/2008	4100	73	1.9	4.9	<4	<4	<10	31	5.3	0.48	<4	<4		14	9.8		0.54	<4	2.6
EW-1	UG/L	2/3/2011	4500	20	1.5	27	13	<0.50	<1.0	<10	42	<1.0	<1.0	<1.0	1.3	5.9	4.0	<1.0	<1.0	<0.50	<1.0
EW-1	UG/L	2/3/2011	4200	20	1.4	27	13	<0.50	<1.0	<10	22	<1.0	<1.0	<1.0	1.1	5.1	3.5	<1.0	<1.0	<0.50	<1.0
EW-1	UG/L	4/13/2011	4700	29	3.2	51	28	0.74	<1.0	<10	67	1.9	<1.0	<1.0	3.7	8.9	8.6	<1.0	<1.0	<0.50	<1.0
MW-104A	UG/L	7/19/1999	<500	<0.5	<1	<1			<1		<10	<1	<1	<1		<1	5.6		<1	1.2	<0.5
MW-104A	UG/L	1/13/2000	<500	<0.5	<1	<1			<1		<10	<1	<1	<1		<1	6.7		<1	<0.5	5.7
MW-104A	UG/L	8/2/2000	<500	<0.5	<1	<1			<1		<10	<1	<1	<1		<1	5.4		<1	<0.5	<0.5
MW-104A	UG/L	2/7/2001	<500	<0.5	<1	<1			<1		<10	<1	<1	<1		<1	4.2		<1	<0.5	<0.5
MW-104A	UG/L	7/25/2001	<100	<0.5	<1	<1			<1		<10	<1	<1	<1		<1	3.9		<1	<0.5	<0.5
MW-104A	UG/L	5/7/2002	100	<0.5	<1	<1			<1	31000	<10	<1	<1	<1		<1	4.3		<1	<0.5	<0.5
MW-104A	UG/L	9/24/2002	<100	<0.5	<1	<1			<1	20000	<10	<1	<1	<1		1.4	5.4		<1	<0.5	<0.5
MW-104A	UG/L	6/30/2004	<200	<5	<5	<5			<5	30J		<5	<5	<5		2J	8.1		<5	<5	<5
MW-104A	UG/L	10/7/2005	<100	<0.5	<1	<1	<1	<1	<1	83	<10	<1	<1	<1		<1	3.4		<1	<0.5	<0.5
MW-104A	UG/L	2/15/2006	<50	<1	<5	<5	<5	<5	<1	30	<5	<5	<5	<5		<5	2		<5	<5	<5
MW-104A	UG/L	2/7/2007	540	<2	<2	<2	<2	<2	<5	120	<5	<2	<2	<2		<2	<2		<2	<2	<5
MW-104A	UG/L	5/8/2007	33	<2	0.37	<2	<2	<2	<5	340	<5	<2	<2	<2		<2	1.8		<2	<2	<5
MW-104A	UG/L	8/8/2007	<50	<2	<2	<2	<2	<2	<5	150	<5	<2	<2	<2		0.51	2.9		<2	<2	<5
MW-104A	UG/L	11/5/2007	<30	<0.28	<0.36	<0.25	<0.6	<0.3	<0.32	81	<0.41	<0.23	<0.26	<0.32		0.71	4		<0.27	<0.28	<0.3
MW-104A	UG/L	2/4/2008	<50	<2	<2	<2	<2	<2	<5	71	<5	<2	<2	<2		0.91	5.2		<2	<2	<5
MW-104A	UG/L	1/16/2009	46	<2	<2	<2	1	<2	<5	23	<5	0.55	<2	<2		0.57	4.6		<2	<2	<5
MW-104A	UG/L	4/22/2009	<50	<2	<2	<2	<2	<2	<5	38	<5	<2	<2	<2		0.62	4.5		<2	<2	<5
MW-104A	UG/L	3/3/2010	<50	<0.50	<0.50	<0.50		<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0		<1.0	3.7		<1.0	<0.50	<1.0
MW-104A	UG/L	8/4/2010	<50	<0.50	<0.50	<0.50		<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0		<1.0	4.5		<1.0	<0.50	<1.0
MW-104A	UG/L	11/3/2010	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	3.6	<1.0	<1.0	<0.50	<1.0
MW-104A	UG/L	2/2/2011	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	2.1	<1.0	<1.0	<0.50	<1.0
MW-104A	UG/L	2/2/2011	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	2.2	<1.0	<1.0	<0.50	<1.0
MW-104A	UG/L	4/14/2011	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	1.0	<1.0	6.4	<1.0	<1.0	<0.50	<1.0
MW-104A	UG/L	8/24/2011	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	3.3	<1.0	<1.0	<0.50	<1.0
MW-104A	UG/L	11/10/2011	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	2.4	<1.0	<1.0	<0.50	<1.0
MW-104A	UG/L	11/10/2011	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	2.6	<1.0	<1.0	<0.50	<1.0
MW-104A	UG/L	2/9/2012	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	3.8	<1.0	<1.0	<0.50	<1.0
MW-104A	UG/L	5/9/2012	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	18	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	4.3	<1.0	<1.0	<0.50	<1.0
MW-104A	UG/L	8/27/2012	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	3.6	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
MW-106A	UG/L	8/2/2006	310	2.6	<2	<2	<2	<2	<5	<50	<5	<2	<2	<2		21	13		<2	<2	10
MW-106A	UG/L	11/9/2006	82	<2	<2	<2	<2	<2	<5	<50	<5	<2	<2	<2		17	14		<2	<2	7
MW-106A	UG/L	2/8/2007	270	2.6	<2	<2	<2	<2	<5	<50	<5	<2	<2	<2		20	15		<2	<2	13
MW-106A	UG/L	5/10/2007	210	1.5	<2	0.28	<2	<2	<5	20	<5	<2	<2	<2		12	9.9		0.6	<2	7.9
MW-106A	UG/L	8/9/2007	270	1.6	<2	0.6	<2	<2	<5	19	0.69	<2	<2	<2		14	12		0.83	<2	12
MW-106A	UG/L	11/7/2007	240	1.4	<0.36	0.84	<0.6	<0.3	<0.32	20	1.6	<0.23	<0.26	<0.32		9.5	11		0.7	<0.28	9.9
MW-106A	UG/L	2/5/2008	220	1.6	<2	0.42	<2	<2	<5	16	1.8	<2	<2	<2		7.8	10		0.73	<2	10
MW-106A	UG/L	1/19/2009	220	0.46	<2	<2	<2	<2	<5	17	<5	<2	<2	<2		11	13		0.99	<2	6.3
MW-106A	UG/L	4/23/2009	290	1.9	<2	3.7	<2	<2	<5	18	0.93	<2	<2	<2		6.3	5.5		0.82	<2	10
MW-106A	UG/L	3/5/2010	590	8.4	<0.50	<0.50		<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0		2.0	3.5		<1.0	<0.50	<1.0
MW-106A	UG/L	5/13/2010	460	8.6	<0.50	<0.50		<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0		2.0	<1.0		<1.0	<0.50	21
MW-106A	UG/L	8/6/2010	450	12	<0.50	<0.50		<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0		3.5	1.0		1.2	<0.50	25
MW-106A	UG/L	11/4/2010	630	0.64	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.5	<1.0	<1.0	<0.50	8.8
MW-106A	UG/L	2/3/2011	570	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
MW-106A	UG/L	4/19/2011	480	0.63	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<								

Table III
Summary of Total Petroleum Hydrocarbon (TPH) and VOC Results
Former Powerine Refinery
Santa Fe Springs, CA
3Q2012

Location	Unit	Date	TPH-g	B	T	E	m/p-X	o-X	MTBE	TBA	NAP	1,2,4-TMB	1,3,5-TMB	PCE	TCE	t1,2-DCE	c1,2-DCE	1,1-DCE	1,1-DCA	1,2-DCA	VC
MW-106A	UG/L	2/3/2012	440	2.7	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1 0	<1.0	<1.0	<1.0	<1.0	<0.50	11
MW-106A	UG/L	5/8/2012	630	7.1	<0.50	0.87	1 5	<0.50	<1.0	13	7.2	<1.0	<1.0	<1.0	<1 0	<1.0	<1.0	<1.0	<1.0	<0.50	23
MW-106A	UG/L	8/24/2012	470	4.8	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1 0	<1.0	<1.0	<1.0	<1.0	<0.50	11
MW-107A	UG/L	8/2/2006	770	3.7	<2	<2	3.4	<2	<5	<50	<5	<2	<2	<2		2.4	3 9		<2	<2	<5
MW-107A	UG/L	11/9/2006	780	24	<2	4.7	9.1	<2	<5	<50	<5	<2	<2	<2		5.3	6 2		<2	<2	<5
MW-107A	UG/L	2/8/2007	500	80	<2	21	25	<2	<5	<50	7.4	<2	<2	<2		7.4	9.6		<2	<2	<5
MW-107A	UG/L	5/10/2007	670	42	1	14	17	<2	<5	21	6	<2	0.29	<2		6	6.6		<2	<2	2
MW-107A	UG/L	8/9/2007	1000	61	2	15	41	<2	<5	18	8.5	<2	0.33	<2		9.5	8 8		0 31	<2	2.3
MW-107A	UG/L	11/7/2007	1500	44	4.2	16	26	<0.3	<0.32	35	11	<0 23	0.49	<0.32		9.4	6.4		0.3	<0.28	4.4
MW-107A	UG/L	2/5/2008	2800	19	3	3	12	<2	<5	37	3.9	<2	0.38	<2		9.2	5.6		0 29	<2	5
MW-107A	UG/L	1/19/2009	1100	13	1.9	1.5	9 9	0.43	<5	66	1.1	<2	0.29	<2		7.3	6 8		<2	<2	2
MW-107A	UG/L	1/19/2009	1200	12	1.9	1.6	9.6	0.38	<5	62	1.3	<2	0.27	<2		7.5	7 2		<2	<2	1.8
MW-107A	UG/L	4/23/2009	1300	74	1.1	13	94	0.47	<5	67	6.6	3 2	2.8	<2		10	8 5		<2	<2	1.3
MW-107A	UG/L	4/23/2009	2400	79	1.2	13	91	0.47	<5	66	7.5	3	2.7	<2		11	9.4		<2	<2	1.3
MW-107A	UG/L	3/5/2010	1100	17	0.68	1.6		<0.50	<1.0	<10	6.0	<1.0	<1.0	<1.0		7.6	6 8		<1.0	<0.50	<1.0
MW-107A	UG/L	3/5/2010	1300	16	0.66	1.7		<0.50	<1.0	<10	5.6	<1.0	<1.0	<1.0		7.4	6.4		<1.0	<0.50	<1.0
MW-107A	UG/L	5/13/2010	1500	7.6	11	4.1		2.0	4.7	<10	3.3	2 0	<1.0	<1.0		4.7	4 8		<1.0	<0.50	<1.0
MW-107A	UG/L	5/13/2010	1100	8.8	11	4.2		<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0		5.9	5 9		<1.0	<0.50	<1.0
MW-107A	UG/L	8/6/2010	1300	120	150	39		1.3	<1.0	<10	24	1 9	<1.0	<1.0		7.5	10		<1.0	<0.50	<1.0
MW-107A	UG/L	8/6/2010	1300	120	160	39		1.3	<1.0	<10	29	1 9	<1.0	<1.0		7.0	9 5		<1.0	<0.50	<1.0
MW-107A	UG/L	11/4/2010	1400	39	11	16	29	<0.50	<1.0	<10	4.1	<1.0	<1.0	<1.0	7.5	5.8	7.7	<1.0	<1.0	<0.50	<1.0
MW-107A	UG/L	11/4/2010	1600	36	10	14	26	<0.50	<1.0	<10	4.2	<1.0	<1.0	<1.0	7.1	5.1	6 9	<1.0	<1.0	<0.50	<1.0
MW-107A	UG/L	2/3/2011	740	4.1	2.2	3.2	14	<0.50	<1.0	<10	1.2	<1.0	<1.0	<1.0	3.3	2.4	3 2	<1.0	<1.0	<0.50	<1.0
MW-107A	UG/L	4/19/2011	1200	2.4	0.90	1.2	4.7	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	5.4	3.6	5 0	<1.0	<1.0	<0.50	<1.0
MW-107A	UG/L	4/19/2011	1200	2.6	0.99	1.2	5 2	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	5.9	4.2	5 9	<1.0	<1.0	<0.50	<1.0
MW-107A	UG/L	8/25/2011	590	0 95	<0.50	<0.50	1 8	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	2.4	1.7	3.4	<1.0	<1.0	<0.50	<1.0
MW-107A	UG/L	8/25/2011	480	0 84	<0.50	<0.50	1.4	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	1.9	1.4	3 0	<1.0	<1.0	<0.50	<1.0
MW-107A	UG/L	11/14/2011	550	1.0	<0.50	<0.50	1.6	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	2.0	<1.0	4 8	<1.0	<1.0	<0.50	<1.0
MW-107A	UG/L	1/31/2012	500	0 97	0.54	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	3.6	2.6	7 8	<1.0	<1.0	<0.50	<1.0
MW-107A	UG/L	5/8/2012	710	0.78	<0.50	<0.50	<1.0	<0.50	<1.0	<10	2.1	<1.0	<1.0	<1.0	1.7	1.6	3.4	<1.0	<1.0	<0.50	<1.0
MW-107A	UG/L	8/24/2012	720	1.0	<0.50	<0.50	<1.0	<0.50	<1.0	11	<1.0	<1.0	<1.0	<1.0	2.5	1.8	3.4	<1.0	<1.0	<0.50	<1.0
MW-503B	UG/L	2/9/1999	10000	970	<50	420					<50	<50	<50	<50		150	110		<50	<50	<100
MW-503B	UG/L	7/19/1999	7800	630	<20	540		<20			<200	<20	<20	<20		250	180		<20	<10	<10
MW-503B	UG/L	1/14/2000	14000	1000	32	870		<20			<200	<20	<20	<20		200	210		<20	<10	<10
MW-503B	UG/L	8/4/2000	5600	610	19	500		<10			23	<10	<10	<10		160	140		<10	<5	<5
MW-503B	UG/L	2/6/2001	5800	250	<20	320		<20			<200	<20	<20	<20		150	84		<20	<10	<10
MW-503B	UG/L	7/25/2001	5700	280	<50	230		<50			<500	<50	<50	<50		57	<50		<50	<25	<25
MW-503B	UG/L	5/9/2002	4500	81	3.5	77			<2	<20000	26	2 5	2.2	<2		23	23		<2	<1	7.7
MW-503B	UG/L	9/26/2002	3300	36	9.6	140		<1	<10000	48	2 5	3.7	3.7	<1		16	18		<1	<0 5	10
MW-503B	UG/L	7/1/2004	5900	160	37	89	42	<0.5	<5	<100	42	3J	4J	<5			3J		<5	<5	<5
MW-503B	UG/L	10/5/2005	5400	1100	<20	73	38	<20	<20	<200	<200	<20	<20	<20		<20	<20		<20	<10	<10
MW-503B	UG/L	2/14/2006	5450	331	<50	12	<250	<250	<10	<100	<50	<50	<50	<50		<50	<50		<50	<50	<50
MW-503B	UG/L	8/4/2006	4700	31	<2	3.5	2.1	2	7.6	<50	<5	<2	<2	<2		3.1	7 2		<2	<2	5.8
MW-503B	UG/L	11/10/2006	3500	26	<4	4.7	<4	<4	<10	<100	<10	<4	<4	<4		<4	4 9		<4	<4	<10
MW-503B	UG/L	2/9/2007	1600	59	<2	<2	<2	<2	<5	<50	<5	<2	<2	<2		2.2	11		<2	<2	5.4
MW-503B	UG/L	5/11/2007	1800	60	0.58	2.1	1	<2	1.3	<50	1.5	<2	0.61	<2		2.6	17		0.63	0.47	7.4
MW-503B	UG/L	8/10/2007	1800	80	0.62	1.7	1.1	<2	<5	<50	<5	0.23	0.44	<2		2	19		0.48	0.64	7.6
MW-503B	UG/L	11/8/2007	2400	270	3.6	3.7	4.7	<1.2	2.8	<20	11	<0 92	<1	<1.3		<1.1	15		<1.1	<1.1	7
MW-503B	UG/L	2/11/2008	2700	220	3.1	3.4	3 5	<8	3.4	<200	18	<8	<8	<8		1.4	21		<8	<8	6.3
MW-503B	UG/L	1/21/2009	6200	410	14	39	28	<10	<25	<250	36	<10	<10	<10		<10	<10		<10	<10	25
MW-503B	UG/L	4/27/2009	4000	210	11	24	18	2.9	2.2	<50	29	0.53	2.9	<2		<2	4 8		<2	1.2	25
MW-503B	UG/L	3/8/2010	2800	40	1.4	1.7		<0.50	2.9	<10	<1.0	<1.0	<1.0	<1.0		<1.0	<1.0		<1.0	<0.50	6.7
MW-503B	UG/L	5/17/2010	2900	91	1.0	1.2		<0.50	5.1	<10	1.4	<1.0	<1.0	<1.0		<1.0	<1.0		<1.0	1.6	5.7
MW-503B	UG/L	8/9/2010	3700	270	5.3	2.4		0.65	<1.0	<10	3.4	<1.0	1.3	<1.0		<1.0	<1.0		<1.0	3.8	5.4
MW-503B	UG/L	11/8/2010	8000	690	320	180	580	170	8.2	<10	97	370	140	<1.0	<1 0	<1.0	<1.0	<1.0	<1.0	<0.50	5.9
MW-503B	UG/L	11/8/2010	12000	940	440	250	800	230	9.6	<10	250	450	170	<1.0	<1 0	<1.0	<1.0	<1.0	<1.0	2.7	6.1
MW-503B	UG/L	2/4/2011	57000	1400	7700	2900	15000	5900	<1.0	<10	5200	15000	4400	<1.0	<1 0	<1.0	2.7	<1.0	<1.0	4.8	<1.0
MW-503B	UG/L	4/15/2011	41000	3400	3200	1800	7200	2600	9.1	63	370	2100	640	<1.0	<1 0	<1.0	1.4	<1.0	<1.0	<0.50	8.0
MW-503B	UG/L	4/15/2011	39000	2200	2500	1400	5200	2000	9.0	64	260	1800	620	<1.0	<1 0	<1.0	1 5	<1.0	<1.0	<0.50	6.9
MW-503B	UG/L	8/29/2011	13000	590	270	440	1300	670	4.4	<10	200	470	150	<1.0	<1 0	<1.0	2.7	<1.0	<1.0	<0.50	1.1
MW-503B	UG/L	11/16/2011	6700	170	160	220	550	280	<1.0	<10	170	290	96	<1.0	<1 0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
MW-503B	UG/L	1/31/2012	5400	250	120	270	580	290	<1.0	<10	150	300	57	<1.0	<1 0	<1.0	3 3	<1.			

Table III
Summary of Total Petroleum Hydrocarbon (TPH) and VOC Results
Former Powerine Refinery
Santa Fe Springs, CA
3Q2012

Location	Unit	Date	TPH-g	B	T	E	m/p-X	o-X	MTBE	TBA	NAP	1,2,4-TMB	1,3,5-TMB	PCE	TCE	t1,2-DCE	c1,2-DCE	1,1-DCE	1,1-DCA	1,2-DCA	VC
MW-701	UG/L	2/4/2011	190	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	4.3	1.6	9 5	1.7	<1.0	<0.50	<1.0
MW-701	UG/L	4/11/2011	230	1.1	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	14	2.3	14	3.8	1.0	<0.50	6.0
MW-701	UG/L	8/30/2011	190	2.5	<0.50	<0.50	<1.0	<0.50	<1.0	19	<1.0	<1.0	<1.0	<1.0	14	2.3	9 0	3.4	<1.0	<0.50	5.2
MW-701	UG/L	8/30/2011	290	2.7	<0.50	<0.50	<1.0	<0.50	<1.0	29	<1.0	<1.0	<1.0	<1.0	11	2.0	7.7	2.8	<1.0	<0.50	4.0
MW-701	UG/L	11/16/2011	310	2.5	0.62	1.4	3 5	1.8	<1.0	<10	7.6	3.4	<1.0	1.3	13	<1.0	9 2	4.6	<1.0	<0.50	<1.0
MW-701	UG/L	2/1/2012	300	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	8.9	3.8	14	4.3	<1.0	<0.50	<1.0
MW-701	UG/L	5/11/2012	260	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	15	3.8	14	<1.0	<1.0	<0.50	5.5
MW-701	UG/L	8/31/2012	350	0.75	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	2.7	16	2.9	18	5.3	<1.0	<0.50	3.7
MW-701	UG/L	8/31/2012	340	0 94	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	2.5	15	2.8	17	5.0	<1.0	<0.50	3.5
MW-702	UG/L	2/4/2011	2300	91	0.74	0.92	<1.0	<0.50	<1.0	<10	5.2	<1.0	1.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
MW-702	UG/L	4/12/2011	910	6.3	<0.50	<0.50	<1.0	<0.50	<1.0	32	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	2 0	<1.0	1.3	<0.50	1.1
MW-702	UG/L	8/30/2011	260	15	<0.50	<0.50	<1.0	<0.50	<1.0	59	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	2 9	<1.0	<1.0	<0.50	1.1
MW-702	UG/L	11/16/2011	1400	99	0.59	0.51	<1.0	<0.50	<1.0	<10	2.9	<1.0	1.0	<1.0	<1.0	<1.0	2 5	<1.0	1.2	<0.50	<1.0
MW-702	UG/L	2/9/2012	1400	480	1.3	0.65	<1.0	<0.50	<1.0	<10	3.4	<1.0	1.2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
MW-702	UG/L	2/9/2012	1500	470	1.3	0.71	<1.0	<0.50	<1.0	<10	3.3	<1.0	1.3	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
MW-702	UG/L	5/11/2012	6000	2700	2.7	1.0	1.4	0.85	<1.0	<10	4.2	<1.0	4.4	<1.0	<1.0	<1.0	1 5	<1.0	<1.0	<0.50	<1.0
MW-702	UG/L	8/31/2012	1200	88	5.9	1.8	<1.0	0.94	<1.0	<10	<1.0	<1.0	2.0	<1.0	<1.0	<1.0	1 2	<1.0	<1.0	<0.50	<1.0
MW-702	UG/L	8/31/2012	4300	72	6.2	1.9	<1.0	0.99	<1.0	<10	<1.0	<1.0	2.1	<1.0	<1.0	<1.0	1 3	<1.0	<1.0	<0.50	<1.0
MW-703	UG/L	2/4/2011	1300	33	1.3	5.2	2 8	<0.50	<1.0	<10	1.6	1 8	<1.0	<1.0	2.0	<1.0	18	3.6	<1.0	<0.50	<1.0
MW-703	UG/L	4/12/2011	1100	76	1.4	7.8	4 8	<0.50	1.4	<10	<1.0	2.7	<1.0	<1.0	2.6	<1.0	10	1.7	<1.0	<0.50	<1.0
MW-703	UG/L	8/30/2011	2100	170	3.4	20	8 5	<0.50	3.3	50	<1.0	2.4	1.1	<1.0	1.1	<1.0	8.7	<1.0	<1.0	<0.50	1.3
MW-703	UG/L	11/17/2011	1700	170	3.8	25	5.6	<0.50	<1.0	<10	<1.0	2 5	1.2	<1.0	<1.0	<1.0	8 8	<1.0	<1.0	<0.50	<1.0
MW-703	UG/L	11/17/2011	1400	150	3.4	21	4.7	<0.50	<1.0	<10	<1.0	2 2	1.0	<1.0	<1.0	<1.0	9 2	<1.0	<1.0	<0.50	<1.0
MW-703	UG/L	2/14/2012	470	48	0.72	1.4	1 9	<0.50	<1.0	<10	1.1	<1.0	<1.0	<1.0	2.6	1.0	28	3.0	<1.0	<0.50	2.5
MW-703	UG/L	5/11/2012	500	10	<0.50	0.55	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	14	<1.0	<1.0	<0.50	1.1
MW-703	UG/L	8/31/2012	490	39	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	12	1.5	<1.0	<0.50	1.2
MW-703	UG/L	8/31/2012	430	40	<0.50	0.52	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	13	1.5	<1.0	<0.50	1.1
MW-704	UG/L	2/9/2011	27000	1800	2000	610	3600	680	210	<10	120	1200	520	<1.0	2.3	<1.0	2 5	<1.0	1.2	38	<1.0
MW-704	UG/L	2/9/2011	26000	1900	2400	620	3700	720	430	<10	96	1300	550	<1.0	<1.0	<1.0	2 5	<1.0	1.3	40	<1.0
MW-704	UG/L	4/13/2011	5400	170	110	200	190	68	73	<10	38	<1.0	<1.0	<1.0	<1.0	<1.0	5.6	<1.0	6.0	7.0	2.0
MW-704	UG/L	8/31/2011	11000	570	600	300	540	180	180	160	58	410	170	<1.0	<1.0	<1.0	3 8	<1.0	3.5	25	1.5
MW-704	UG/L	9/1/2011	2200	1200	95	92	1500	170	17	46	87	160	35	<1.0	<1.0	<1.0	6.6	<1.0	<1.0	<0.50	4.6
MW-704	UG/L	11/17/2011	10000	550	430	420	520	180	190	<10	37	490	210	<1.0	<1.0	<1.0	3.4	<1.0	3.9	18	<1.0
MW-704	UG/L	2/14/2012	7700	310	89	390	530	95	100	73	50	500	210	<1.0	<1.0	<1.0	5 3	<1.0	5.7	5.9	3.1
MW-704	UG/L	2/14/2012	7800	320	89	410	560	96	130	80	53	510	220	<1.0	<1.0	<1.0	4 5	<1.0	4.9	6.2	2.3
MW-704	UG/L	5/14/2012	11000	450	250	360	520	99	130	45	61	410	150	<1.0	<1.0	<1.0	2 8	<1.0	3.3	12	1.2
MW-704	UG/L	5/14/2012	9000	460	260	360	530	98	140	56	77	420	150	<1.0	<1.0	<1.0	3 0	<1.0	3.4	12	1.2
MW-704	UG/L	9/4/2012	7800	580	30	550	760	33	44	24	3.6	670	260	<1.0	<1.0	<1.0	2.4	<1.0	2.6	3.4	<1.0
MW-705	UG/L	2/4/2011	3100	450	3.5	5.1	6.4	0.54	90	94	6.7	<1.0	1.3	<1.0	<1.0	<1.0	2 0	<1.0	<1.0	<0.50	<1.0
MW-705	UG/L	4/12/2011	930	55	0.87	1.7	1.6	<0.50	22	31	<1.0	1 3	<1.0	<1.0	<1.0	<1.0	3 8	<1.0	<1.0	<0.50	<1.0
MW-705	UG/L	8/31/2011	1300	79	1.4	3.3	2 3	<0.50	13	66	<1.0	1 9	1.3	<1.0	<1.0	<1.0	4 2	<1.0	<1.0	0.56	1.2
MW-705	UG/L	11/17/2011	1100	56	7.6	24	29	6.3	73	<10	38	31	9.8	<1.0	<1.0	<1.0	2.1	<1.0	<1.0	<0.50	<1.0
MW-705	UG/L	2/14/2012	410	52	1.2	7.0	7 8	0.66	250	240	3.3	8.1	3.8	<1.0	<1.0	<1.0	8 9	1.3	<1.0	<0.50	1.8
MW-705	UG/L	2/14/2012	440	49	0.86	5.6	5.7	<0.50	250	230	<1.0	5 0	2.6	<1.0	<1.0	<1.0	8 3	1.3	<1.0	<0.50	1.5
MW-705	UG/L	5/14/2012	600	27	1.2	2.8	5.6	0.76	64	49	12	5 9	2.0	<1.0	<1.0	<1.0	7.4	1.4	<1.0	<0.50	<1.0
MW-705	UG/L	5/14/2012	610	36	<0.50	2.1	5.6	<0.50	60	33	<1.0	1.1	<1.0	<1.0	1.0	<1.0	8 3	1.8	<1.0	<0.50	<1.0
MW-705	UG/L	9/4/2012	100	0.79	<0.50	<0.50	<1.0	<0.50	12	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	13	2.0	<1.0	0.51	<1.0
MW-706	UG/L	2/4/2011	390	4.9	0.57	<0.50	<1.0	<0.50	4.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	3.6	<1.0	<1.0	<0.50	<1.0
MW-706	UG/L	4/11/2011	540	9.0	<0.50	<0.50	<1.0	<0.50	5.9	89	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	6 0	<1.0	<1.0	<0.50	2.6
MW-706	UG/L	8/31/2011	1100	25	0.86	0.65	1 9	<0.50	5.4	54	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	4 3	<1.0	<1.0	<0.50	1.9
MW-706	UG/L	11/18/2011	490	9.5	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	3 3	<1.0	<1.0	<0.50	<1.0
MW-706	UG/L	2/14/2012	350	16	<0.50	<0.50	<1.0	<0.50	4.4	16	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	4 5	<1.0	<1.0	<0.50	2.5
MW-706	UG/L	5/14/2012	1300	22	1.0	0.95	2.6	0.50	6.8	16	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	3.7	<1.0	<1.0	<0.50	1.5
MW-706	UG/L	5/14/2012	1500	23	1.0	1.0	2.6	0.53	7.0	17	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	4 0	<1.0	<1.0	<0.50	1.6
MW-706	UG/L	9/4/2012	410	12	<0.50	<0.50	1 2	<0.50	5.8	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	4 8	<1.0	<1.0	<0.50	1.2
MW-707	UG/L	2/4/2011	2000	520	120	7.6	120	150	15	<10	<1.0	10	7.8	4.1	8.7	<1.0	7 0	6.9			

Table III
Summary of Total Petroleum Hydrocarbon (TPH) and VOC Results
Former Powerine Refinery
Santa Fe Springs, CA
3Q2012

Location	Unit	Date	TPH-g	B	T	E	m/p-X	o-X	MTBE	TBA	NAP	1,2,4-TMB	1,3,5-TMB	PCE	TCE	t1,2-DCE	c1,2-DCE	1,1-DCE	1,1-DCA	1,2-DCA	VC
MW-708	UG/L	9/1/2011	38000	1900	230	1200	2200	54	2300	2500	150	440	430	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
MW-708	UG/L	11/18/2011	18000	1100	62	630	860	30	1000	<100	180	940	390	<10	<10	<10	<10	<10	<10	<5.0	<10
MW-708	UG/L	2/10/2012	18000	1700	74	770	1000	38	830	<10	170	1100	410	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
MW-708	UG/L	5/15/2012	57000	870	39	550	750	18	450	120	110	430	380	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	0.86	<1.0
MW-708	UG/L	9/5/2012	17000	1400	75	710	1000	32	390	<10	160	1400	520	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
MW-709	UG/L	2/4/2011	500	16	1.0	<0.50	4.8	1.1	2.8	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
MW-709	UG/L	4/6/2011	580	26	0.86	0.89	4.1	0.72	4.6	<10	2.7	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
MW-709	UG/L	9/1/2011	9900	1.1	<0.50	0.91	4.6	1.2	7.6	60	<1.0	2.4	1.2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
MW-709	UG/L	11/21/2011	1100	<0.50	<0.50	0.77	2.1	0.75	6.4	<10	4.6	1.4	1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
MW-709	UG/L	2/10/2012	760	<0.50	<0.50	<0.50	<1.0	<0.50	4.4	180	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
MW-709	UG/L	5/16/2012	920	<0.50	<0.50	<0.50	<1.0	<0.50	4.7	20	1.1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
MW-709	UG/L	9/5/2012	670	<0.50	0.86	<0.50	1.8	0.67	2.2	23	12	1.2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
MW-710	UG/L	2/8/2011	93	0.84	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	55	93	2.9	14	41	3.1	0.81	1.3
MW-710	UG/L	2/8/2011	110	0.75	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	54	89	2.9	14	41	3.1	<0.50	1.2
MW-710	UG/L	4/7/2011	<50	0.81	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	76	72	4.1	19	56	4.9	1.5	2.0
MW-710	UG/L	4/7/2011	100	0.84	<0.50	<0.50	<1.0	<0.50	<1.0	<10	1.0	<1.0	<1.0	82	92	4.0	18	54	4.7	1.5	1.9
MW-710	UG/L	9/2/2011	380	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	76	97	2.0	17	50	4.3	1.2	1.1
MW-710	UG/L	9/2/2011	100	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	58	<1.0	<1.0	<1.0	76	100	2.2	18	54	4.6	1.2	1.3
MW-710	UG/L	11/21/2011	95	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	51	71	1.5	13	35	3.6	<0.50	<1.0
MW-710	UG/L	11/21/2011	79	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	52	71	1.5	13	34	3.4	<0.50	<1.0
MW-710	UG/L	2/1/2012	170	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	66	110	2.1	23	71	6.0	<0.50	<1.0
MW-710	UG/L	5/16/2012	130	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	53	77	1.2	19	48	4.4	<0.50	<1.0
MW-710	UG/L	9/5/2012	100	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	3.8	1.0	<1.0	77	91	<1.0	16	56	3.9	<0.50	1.2
MW-711	UG/L	2/8/2011	11000	520	440	120	380	250	11	<10	260	180	110	<1.0	8.4	<1.0	4.5	<1.0	<1.0	<0.50	7.5
MW-711	UG/L	4/6/2011	7100	<0.50	<0.50	65	160	50	20	<10	420	52	36	<1.0	1.1	<1.0	2.6	<1.0	<1.0	<0.50	8.7
MW-711	UG/L	9/2/2011	44000	1600	1800	650	3000	1100	25	<10	620	1800	550	<1.0	<1.0	1.3	3.8	<1.0	<1.0	<0.50	17
MW-711	UG/L	11/21/2011	14000	370	290	530	1800	790	<1.0	<10	880	480	98	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
MW-711	UG/L	2/10/2012	23000	1900	2100	440	1800	770	14	<10	360	480	150	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
MW-711	UG/L	5/16/2012	25000	2900	3200	730	3000	1200	14	<10	370	<1.0	300	<1.0	<1.0	<1.0	3.0	<1.0	<1.0	<0.50	5.9
MW-711	UG/L	9/5/2012	28000	2100	2000	640	2000	1100	5.9	<10	370	720	120	<1.0	<1.0	<1.0	2.2	<1.0	<1.0	<0.50	5.8
MW-712	UG/L	2/9/2011	14000	1200	520	380	1800	390	23	<10	98	460	170	<1.0	<1.0	<1.0	2.6	<1.0	<1.0	<0.50	<1.0
MW-712	UG/L	4/7/2011	94	860	140	270	1100	170	32	<10	140	580	220	<1.0	1.8	<1.0	3.4	<1.0	<1.0	0.64	2.2
MW-712	UG/L	9/2/2011	6300	440	77	100	350	72	19	<10	43	180	76	<1.0	<1.0	<1.0	2.8	<1.0	<1.0	0.71	<1.0
MW-712	UG/L	11/21/2011	8000	600	60	90	310	60	<1.0	<10	65	140	72	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
MW-712	UG/L	2/13/2012	8300	850	57	62	180	46	21	94	24	86	44	<1.0	<1.0	<1.0	3.4	<1.0	<1.0	<0.50	1.7
MW-712	UG/L	5/17/2012	8400	650	130	180	740	150	86	22	44	240	77	<1.0	<1.0	<1.0	3.0	<1.0	<1.0	<0.50	1.1
MW-712	UG/L	9/6/2012	10000	1100	27	47	110	40	110	97	49	88	33	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
MW-713	UG/L	2/9/2011	280	29	<0.50	<0.50	1.7	<0.50	3.5	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	2.2	<1.0	<1.0	<0.50	<1.0
MW-713	UG/L	4/8/2011	1000	150	<0.50	0.91	1.6	<0.50	75	120	2.8	<1.0	<1.0	<1.0	<1.0	<1.0	5.4	<1.0	<1.0	<0.50	<1.0
MW-713	UG/L	9/2/2011	310	73	3.0	1.7	7.8	3.6	71	100	11	7.0	1.6	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
MW-713	UG/L	11/22/2011	3300	900	1.6	3.4	12	2.6	230	220	2.2	2.0	<1.0	<1.0	<1.0	<1.0	2.5	<1.0	<1.0	<0.50	<1.0
MW-713	UG/L	11/22/2011	3500	800	1.9	3.8	14	2.9	230	230	2.7	2.4	<1.0	<1.0	<1.0	<1.0	2.8	<1.0	<1.0	<0.50	<1.0
MW-713	UG/L	2/13/2012	5500	1900	2.2	4.6	9.8	2.5	390	160	<1.0	1.6	<1.0	<1.0	<1.0	<1.0	3.1	<1.0	<1.0	<0.50	<1.0
MW-713	UG/L	5/17/2012	5100	2300	2.3	5.3	6.0	1.3	400	110	3.6	1.1	<1.0	<1.0	<1.0	<1.0	2.2	<1.0	<1.0	<0.50	<1.0
MW-713	UG/L	9/6/2012	9600	1600	3.5	6.4	6.8	1.5	410	75	14	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
MW-714	UG/L	2/14/2011	370	1.3	<0.50	<0.50	<1.0	<0.50	10	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
MW-714	UG/L	4/7/2011	16000	16	4.0	2.1	11	1.9	16	<10	23	4.7	1.4	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
MW-714	UG/L	9/2/2011	500	3.8	<0.50	<0.50	1.1	<0.50	9.7	37	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
MW-714	UG/L	11/22/2011	430	9.0	<0.50	<0.50	<1.0	<0.50	8.4	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
MW-714	UG/L	11/22/2011	490	4.7	<0.50	<0.50	<1.0	<0.50	7.9	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
MW-714	UG/L	2/13/2012	760	3.9	<0.50	<0.50	<1.0	<0.50	7.1	23	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
MW-714	UG/L	2/13/2012	730	5.0	0.72	<0.50	1.1	<0.50	8.4	29	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
MW-714	UG/L	5/18/2012	390	2.4	<0.50	<0.50	<1.0	<0.50	7.1	<10	1.2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
MW-714	UG/L	9/6/2012	500	1.6	<0.50	<0.50	<1.0	<0.50	2.3	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
MW-715	UG/L	2/14/2011	2000	480	12	1.7	24	7.4	2.8	<10	<1.0	2.6	4.2	<1.0	<1.0	<1.0	1.5	<1.0	<1.0	<0.50	<1.0
MW-715	UG/L	4																			

Table III
Summary of Total Petroleum Hydrocarbon (TPH) and VOC Results
Former Powerine Refinery
Santa Fe Springs, CA
3Q2012

Location	Unit	Date	TPH-g	B	T	E	m/p-X	o-X	MTBE	TBA	NAP	1,2,4-TMB	1,3,5-TMB	PCE	TCE	t1,2-DCE	c1,2-DCE	1,1-DCE	1,1-DCA	1,2-DCA	VC
W-1	UG/L	11/1/1989		390	3.9	2.1								<0.5A		<0.5A			3.5A	<0 5A	21
W-1	UG/L	3/1/1990		140	<5	<5								<5		<10			<5	<5	<20
W-1	UG/L	4/1/1990		200	12	12								<5		<5	<25		1.6	<5	<5
W-1	UG/L	12/18/1996	800	78	<5	<5			<10		10	<5	<5	<5		<5	<5		<5	<5	<10
W-1	UG/L	1/14/1998	1100	62	<5	<5			<5		<10	<5	<5	<5		<5	<5		<5	<5	16
W-1	UG/L	8/20/1998	1200	79	<5	<5			14		<10	<5	<5	<5		<5	8.6		8.4	<5	26
W-1	UG/L	1/29/1999	1400	57	<5	<5			<5		<10	<5	<5	<5		<5	<5		<5	<5	18
W-1	UG/L	7/19/1999	1500	48	<2	<2			<2		<20	<2	<2	<2		<2	<2		<2	<1	<1
W-1	UG/L	8/3/2000	880	29	<1	<1			10		<10	<1	<1	<1		<1	1.6		1.6	<0 5	7.3
W-1	UG/L	2/8/2001	<500	21	<1	<1			68		<10	<1	<1	<1		<1	2 3		<1	<0 5	6.3
W-1	UG/L	7/26/2001	620	18	<1	<1			62		<10	<1	<1	<1		<1	2 8		1.8	<0 5	6.8
W-1	UG/L	5/8/2002	280	7.7	<1	<1			5.9	44000	<10	<1	<1	<1		<1	3.1		<1	<0 5	6.4
W-1	UG/L	9/25/2002	210	12	<1	<1			1.9	30000	<10	<1	<1	<1		<1	6 5		<1	<0 5	14
W-1	UG/L	7/1/2004	460	14	2.8	1.5	<0.5	<0.5	3J	<100	<5	<5	<5	<5		4J	9 3		1J	<5	2
W-1	UG/L	10/6/2005	310	43	<1	<1	<1	<1	25	34	<10	<1	<1	<1		1.6	<1		<1	<0 5	7.1
W-1	UG/L	2/15/2006	266	32	<5	<5	<5	<5	22	37	<5	<5	<5	<5		1.3	<5		<5	<5	3.3
W-1	UG/L	8/3/2006	1100	86	<2	<2	<2	<2	77	100	<5	<2	<2	<2		<2	<2		<2	<2	<5
W-1	UG/L	11/9/2006	470	100	<2	<2	<2	<2	65	78	<5	<2	<2	<2		<2	<2		<2	<2	<5
W-1	UG/L	2/8/2007	500	77	<2	<2	<2	<2	21	<50	<5	<2	<2	<2		<2	<2		<2	<2	<5
W-1	UG/L	5/10/2007	890	110	0.57	0.61	<2	0.32	28	43	1	<2	<2	<2		0.42	<2		<2	<2	1.8
W-1	UG/L	8/9/2007	1100	140	0.84	0.84	<2	0.63	64	84	1.1	<2	<2	<2		0.47	<2		0 32	<2	1.9
W-1	UG/L	11/7/2007	1200	140	1.6	1.2	0.68	0.91	56	80	1.6	0.38	2.1	<0.32		0.7	<0 32		<0.27	<0.28	1.2
W-1	UG/L	2/7/2008	1000	96	<2	<2	<2	<2	31	51	<5	<2	<2	<2		<2	<2		<2	<2	<5
W-1	UG/L	1/20/2009	230	15	<2	<2	<2	<2	3.1	23	<5	<2	<2	<2		0.87	<2		0 58	<2	2.8
W-1	UG/L	1/20/2009	220	19	<2	<2	<2	<2	3.9	35	<5	<2	<2	<2		1.1	0.4		0.61	<2	3.7
W-1	UG/L	4/24/2009	180	3.9	<2	<2	<2	<2	<5	26	<5	<2	<2	<2		1.4	<2		0.74	<2	9.5
W-1	UG/L	3/5/2010	270	3.3	<0.50	<0.50		<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0		<1.0	<1.0		<1.0	<0.50	1.3
W-1	UG/L	5/13/2010	260	9.3	<0.50	<0.50		<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0		<1.0	<1.0		<1.0	<0.50	1.2
W-1	UG/L	8/6/2010	260	17	<0.50	<0.50		<0.50	<1.0	10	<1.0	<1.0	<1.0	<1.0		<1.0	<1.0		<1.0	<0.50	<1.0
W-1	UG/L	11/5/2010	150	15	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1 0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
W-1	UG/L	2/4/2011	200	2.7	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1 0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
W-1	UG/L	4/14/2011	150	1.4	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1 0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
W-1	UG/L	8/26/2011	130	3.9	<0.50	<0.50	<1.0	<0.50	1.3	16	<1.0	<1.0	<1.0	<1.0	<1 0	4.2	<1.0	<1.0	<1.0	<0.50	6.4
W-1	UG/L	11/14/2011	160	12	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1 0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
W-1	UG/L	11/14/2011	160	12	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1 0	5.1	<1.0	<1.0	<1.0	<0.50	<1.0
W-1	UG/L	2/6/2012	160	18	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1 0	3.7	<1.0	<1.0	<1.0	<0.50	2.4
W-1	UG/L	5/7/2012	680	15	<0.50	<0.50	<1.0	<0.50	<1.0	23	<1.0	<1.0	<1.0	<1.0	<1 0	2.2	<1.0	<1.0	<1.0	<0.50	1.8
W-1	UG/L	8/27/2012	180	9.1	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1 0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
W-10	UG/L	11/8/2006	26000	8200	5000	570	2100	820	<100	<1000	340	360	110	<40		<40	<40		<40	<40	<100
W-10	UG/L	2/9/2007	28000	6400	2200	520	2200	710	<500	<5000	<500	280	<200	<200		<200	<200		<200	<200	<500
W-10	UG/L	2/9/2007	26000	5100	1600	410	1800	570	<500	<5000	<500	260	<200	<200		<200	<200		<200	<200	<500
W-10	UG/L	5/11/2007	7900	430	140	100	480	130	<10	84	100	130	48	<4		<4	6		8.2	1.2	3.6
W-10	UG/L	5/11/2007	7800	500	160	110	540	150	<25	85	150	150	53	<10		<10	6.6		8.8	1.4	3.9
W-10	UG/L	8/9/2007	5400	590	20	82	330	40	<25	68	59	90	33	<10		<10	6.4		8	<10	3
W-10	UG/L	11/9/2007	<12000	4700	460	330	1300	240	<32	<490	240	190	55	<32		<27	<32		<27	<28	<30
W-10	UG/L	2/8/2008	<28000	7200	280	300	1300	190	<500	<5000	140	140	38	<200		<200	<200		<200	<200	<500
W-10	UG/L	2/8/2008	<25000	7600	310	330	1400	200	<500	<5000	170	150	42	<200		<200	<200		<200	<200	<500
W-10	UG/L	1/21/2009	20000	8100	<200	440	1400	<200	<500	<5000	<500	230	<200	<200		<200	<200		<200	<200	<500
W-10	UG/L	4/27/2009	16000	7400	<200	490	1400	<200	<500	<5000	270	230	36	<200		<200	<200		<200	<200	<500
W-10	UG/L	4/27/2009	15000	5100	<200	350	830	<200	<500	<5000	220	190	31	<200		<200	<200		<200	<200	<500
W-10	UG/L	3/8/2010	12000	4200	4.4	200		1.6	<1.0	<10	110	93	18	<1.0		<1.0	<1.0		<1.0	7.3	<1.0
W-10	UG/L	3/8/2010	8600	3100	<250	<250		<250	<500	<5000	<500	<500	<500	<500		<500	<500		<500	<250	<500
W-10	UG/L	5/17/2010	9500	3900	7.4	230		1.9	<1.0	<10	130	70	13	<1.0		<1.0	<1.0		<1.0	2.7	<1.0
W-10	UG/L	5/17/2010	10000	2900	10	160		1.7	<1.0	15	110	82	14	<1.0		<1.0	<1.0		<1.0	4.2	<1.0
W-10	UG/L	8/9/2010	7900	2400	12	130		1.9	<1.0	93	60	62	10	<1.0		<1.0	<1.0		<1.0	3.0	<1.0
W-10	UG/L	11/8/2010	7700	2900	45	160	140	6.4	<1.0	<10	180	56	8.1	<1.0	<1 0	<1.0	<1.0	<1.0	1.0	2.6	1.4
W-10	UG/L	2/8/2011	11000	2600	100	160	140	28	<1.0	<10	150	61	13	<1.0	<1 0	<1.0	<1.0	<1.0	<1.0	4.0	<1.0
W-10	UG/L	4/21/2011	12000	4900	97	240	190	38	<1.0	250	150	65	15	<1.0	<1 0	<1.0	<1.0	<1.0	1.6	12	<1.0
W-10	UG/L	9/1/2011	8200	2900	2.2	120	44	1.1	<1.0	140	97	31	5.7	<1.0	<1 0	<1.0	<1.0	<1.0	<1.0	4.9	<1.0
W-10	UG/L	11/16/2011	8800	840	3.9	190	92	1.1	<1.0	<10	94	49	10	<1.0	<1 0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
W-10	UG/L	2/8/2012	10000	3100	5.5	230	150	2.9	<1.0	<10	130	73	12	<1.0	<1 0	<1.0	<1.0	<1.0	<1.0	5.6	<1.0
W-10	UG/L	5/10/2012	1000	15	<0.50	1.4	1 2	<0.50	<1.0	<10	21	4 3	<1.0	<1.0	<1 0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
W-10	UG/L	8/28/2012	8200	3100	4.3	160	32	1.4	<1.0	61	270	27	2.8	<1.0	<1 0	<1.0	<1.0	<1.0	<1.0	2.8	<1.0
W-11	UG/L	11/9/2006	5200	99	12																

Table III
Summary of Total Petroleum Hydrocarbon (TPH) and VOC Results
Former Powerline Refinery
Santa Fe Springs, CA
3Q2012

Location	Unit	Date	TPH-g	B	T	E	m/p-X	o-X	MTBE	TBA	NAP	1,2,4-TMB	1,3,5-TMB	PCE	TCE	t1,2-DCE	c1,2-DCE	1,1-DCE	1,1-DCA	1,2-DCA	VC
W-11	UG/L	5/9/2007	540	45	1.6	19	47	3.1	<5	<50	0.68	9	4.4	<2		0.41	18		<2	<2	0.96
W-11	UG/L	8/8/2007	<1100	700	3.7	36	11	7.1	<5	<50	0.81	15	8.6	<2		<2	9.9		<2	0.29	1.1
W-11	UG/L	11/8/2007	460	61	1.2	14	37	13	<0.32	<4.9	1	35	17	<0.32		<0.27	10		<0.27	<0.28	<0.3
W-11	UG/L	12/8/2010	77000	150	51	260	2300	690	17	43	48	1300	800	<1.0	<1.0	<1.0	<1.0	<1.0	1.4	<0.50	<1.0
W-11	UG/L	2/4/2011	10000	100	1.2	23	100	16	<1.0	<10	7.6	100	180	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
W-11	UG/L	4/15/2011	6300	410	15	50	390	18	<1.0	<10	3.4	83	280	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
W-11	UG/L	8/29/2011	10000	560	2.2	57	640	14	<1.0	<10	<1.0	100	190	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
W-11	UG/L	11/14/2011	10000	620	3.0	100	510	7.5	<1.0	<10	6.0	130	240	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
W-11	UG/L	2/8/2012	2900	12	<0.50	6.2	50	0.80	<1.0	<10	2.7	24	39	<1.0	<1.0	<1.0	2.0	<1.0	<1.0	0.90	<1.0
W-11	UG/L	5/10/2012	1800	8.4	<0.50	3.1	7.3	0.80	<1.0	<10	1.7	4.6	10	<1.0	<1.0	<1.0	2.0	<1.0	<1.0	0.50	<1.0
W-11	UG/L	8/28/2012	7400	16	30	47	130	20	<1.0	<10	5.0	70	97	<1.0	<1.0	<1.0	2.1	<1.0	<1.0	<0.50	<1.0
W-12	UG/L	11/8/2006	1400	<2	<2	<2	<2	<2	<5	55	<5	<2	<2	<2		<2	5.4		<2	<2	<5
W-12	UG/L	2/7/2007	4800	<2	<2	<2	<2	<2	<5	50	<5	<2	<2	<2		<2	6.8		<2	<2	<5
W-12	UG/L	5/9/2007	220	<2	<2	<2	<2	<2	<5	40	<5	<2	<2	<2		0.31	4.3		<2	0.37	1.1
W-12	UG/L	8/8/2007	1100	<2	<2	0.56	<2	<2	0.36	40	<5	<2	<2	<2		<2	3.1		<2	<2	0.85
W-12	UG/L	11/6/2007	1500	0.37	<0.36	0.97	<0.6	<0.3	1.2	58	0.66	<0.23	<0.26	<0.32		<0.27	2.6		<0.27	0.42	0.47
W-12	UG/L	2/8/2008	410	0.94	<2	3	<2	<2	0.82	54	2.5	<2	<2	<2		<2	1.8		<2	0.45	<5
W-12	UG/L	1/20/2009	620	<2	<2	0.69	<2	<2	<5	32	<5	<2	<2	<2		0.48	5.4		<2	<2	2.4
W-12	UG/L	4/22/2009	1100	<2	<2	2.1	<2	<2	0.33	30	8.2	0.26	<2	<2		<2	3.7		<2	<2	1.5
W-12	UG/L	3/4/2010	400	<0.50	<0.50	2.1		<0.50	<1.0	<10	1.5	<1.0	<1.0	<1.0		<1.0	<1.0		<1.0	<0.50	<1.0

Table III
Summary of Total Petroleum Hydrocarbon (TPH) and VOC Results
Former Powerine Refinery
Santa Fe Springs, CA
3Q2012

Location	Unit	Date	TPH-g	B	T	E	m/p-X	o-X	MTBE	TBA	NAP	1,2,4-TMB	1,3,5-TMB	PCE	TCE	t1,2-DCE	c1,2-DCE	1,1-DCE	1,1-DCA	1,2-DCA	VC
W-14C	UG/L	1/31/2011	60	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	3.8	1.1	9 9	3.0	<1.0	<0.50	<1.0
W-14C	UG/L	4/4/2011	<50	1.2	<0.50	<0.50	<1.0	<0.50	<1.0	27	<1.0	<1.0	<1.0	<1.0	24	3.9	30	16	3.1	<0.50	<1.0
W-14C	UG/L	8/22/2011	290	0.73	<0.50	<0.50	<1.0	<0.50	<1.0	22	<1.0	<1.0	<1.0	<1.0	21	2.3	26	12	2.2	<0.50	<1.0
W-14C	UG/L	11/7/2011	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	1.2	<1.0	3 2	<1.0	<1.0	<0.50	<1.0
W-14C	UG/L	1/30/2012	100	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	3.4	<1.0	5 3	2.2	<1.0	<0.50	<1.0
W-14C	UG/L	5/1/2012	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1 0	<1.0	3 8	<1.0	<1.0	<0.50	<1.0
W-14C	UG/L	8/20/2012	71	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1 0	<1.0	5 8	1.4	<1.0	<0.50	<1.0
W-15A	UG/L	2/11/2008	2700	620	4.9	5.1	11	<20	650	120	<50	<20	<20	<20		<20	<20		<20	<20	<50
W-15A	UG/L	1/14/2009	230	7.4	<2	<2	<2	<2	190	170	<5	<2	<2	<2		<2	<2		<2	<2	<5
W-15A	UG/L	4/24/2009	530	8.4	<4	<4	<4	<4	220	220	<10	<4	<4	<4		<4	<4		<4	<4	<10
W-15A	UG/L	3/2/2010	240	0 93	<0.50	<0.50		<0.50	44	94	<1.0	<1.0	<1.0	<1.0		<1.0	<1.0		<1.0	<0.50	<1.0
W-15A	UG/L	5/10/2010	260	1.5	<0.50	<0.50		<0.50	85	<10	<1.0	<1.0	<1.0	<1.0		<1.0	<1.0		<1.0	<0.50	<1.0
W-15A	UG/L	8/2/2010	310	0 54	<0.50	<0.50		<0.50	71	180	<1.0	<1.0	<1.0	<1.0		<1.0	<1.0		<1.0	<0.50	<1.0
W-15A	UG/L	11/1/2010	61	<0.50	<0.50	<0.50	<1.0	<0.50	2.5	88	<1.0	<1.0	<1.0	<1.0	<1 0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
W-15A	UG/L	11/1/2010	74	0.66	<0.50	<0.50	1 0	<0.50	6.8	98	<1.0	<1.0	<1.0	<1.0	<1 0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
W-15A	UG/L	2/1/2011	14000	1400	610	400	1800	400	260	390	64	490	200	<1.0	<1 0	<1.0	<1.0	<1.0	<1.0	1.6	<1.0
W-15A	UG/L	4/5/2011	22000	<0.50	<0.50	<0.50	<1.0	<0.50	450	<10	150	<1.0	<1.0	<1.0	<1 0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
W-15A	UG/L	2/2/2012	62000	4400	2400	2400	9900	2300	930	<10	4.6	2900	880	<1.0	<1 0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
W-15A	UG/L	5/2/2012	2100000	3900	3600	3900	13000	4400	940	220	450	6200	1800	<10	<10	<10	<10	<10	<10	<5 0	<10
W-15A	UG/L	8/21/2012	23000	540	370	590	3300	620	160	<250	190	1100	340	<25	<25	<25	<25	<25	<25	<12	<25
W-15B	UG/L	2/11/2008	<1600	900	<20	<20	7	<20	20	110	<50	<20	<20	<20		<20	<20		<20	<20	<50
W-15B	UG/L	1/14/2009	340	160	<2	<2	5	<2	20	110	<5	<2	<2	<2		<2	<2		<2	<2	<5
W-15B	UG/L	4/24/2009	63	6.2	<2	<2	<2	<2	5.8	98	<5	<2	<2	<2		<2	<2		<2	<2	<5
W-15B	UG/L	3/2/2010	220	3.8	<0.50	<0.50		<0.50	5.0	<10	<1.0	<1.0	<1.0	<1.0		<1.0	<1.0		<1.0	<0.50	<1.0
W-15B	UG/L	5/11/2010	230	20	<0.50	<0.50		<0.50	17	36	<1.0	<1.0	<1.0	<1.0		<1.0	<1.0		<1.0	<0.50	<1.0
W-15B	UG/L	8/3/2010	250	14	<0.50	<0.50		<0.50	19	67	<1.0	<1.0	<1.0	<1.0		<1.0	<1.0		<1.0	<0.50	<1.0
W-15B	UG/L	11/2/2010	740	38	<0.50	<0.50	3 2	0.74	50	87	<1.0	<1.0	<1.0	<1.0	<1 0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
W-15B	UG/L	2/1/2011	120	7.0	1.7	0.55	4 0	1.4	22	21	<1.0	<1.0	<1.0	<1.0	<1 0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
W-15B	UG/L	4/5/2011	1500	<0.50	66	18	120	64	130	<10	6.3	16	16	<1.0	<1 0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
W-15B	UG/L	8/23/2011	1400	120	40	17	110	30	260	210	<1.0	13	7.2	<1.0	<1 0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
W-15B	UG/L	8/23/2011	1100	110	34	15	100	29	200	220	<1.0	14	7.2	<1.0	<1 0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
W-15B	UG/L	11/10/2011	250	17	5.4	2.8	17	3.9	55	<10	<1.0	2.4	1.1	<1.0	<1 0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
W-15B	UG/L	2/2/2012	280	35	14	4.4	31	18	100	80	<1.0	2 3	3.8	<1.0	<1 0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
W-15B	UG/L	5/2/2012	780	27	2.6	3.1	18	6.3	200	160	<1.0	4.4	2.6	<1.0	<1 0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
W-15B	UG/L	8/20/2012	98	2.6	<0.50	<0.50	<1.0	0.52	110	87	<1.0	<1.0	<1.0	<1.0	<1 0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
W-15C	UG/L	2/11/2008	<50	0 94	0.57	<2	<2	<2	<5	18	<5	<2	<2	<2		<2	1.1		0.45	0.35	0.34
W-15C	UG/L	1/15/2009	29	1.1	<2	<2	<2	<2	<5	27	<5	<2	<2	<2		<2	5.7		1.2	0.86	0.9
W-15C	UG/L	4/24/2009	43	<2	<2	<2	<2	<2	<5	25	<5	<2	<2	<2		<2	1		<2	<2	<5
W-15C	UG/L	3/2/2010	<50	<0.50	<0.50	<0.50		<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0		<1.0	1.4		<1.0	<0.50	<1.0
W-15C	UG/L	5/11/2010	<50	<0.50	<0.50	<0.50		<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0		<1.0	1.6		<1.0	<0.50	<1.0
W-15C	UG/L	8/3/2010	<50	<0.50	<0.50	<0.50		<0.50	<1.0	20	<1.0	<1.0	<1.0	<1.0		<1.0	4.7		1.0	0.54	1.5
W-15C	UG/L	11/2/2010	70	<0.50	<0.50	<0.50	<1.0	<0.50	2.9	<10	<1.0	<1.0	<1.0	<1.0	1.0	<1.0	1.7	<1.0	<1.0	<0.50	<1.0
W-15C	UG/L	2/1/2011	94	1.6	0.85	<0.50	2 0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	1.8	<1.0	2.6	<1.0	<1.0	<0.50	<1.0
W-15C	UG/L	4/5/2011	120	10	4.8	1.9	10	2.6	4.2	<10	1.1	<1.0	<1.0	<1.0	4.6	<1.0	6.6	1.5	1.4	<0.50	1.8
W-15C	UG/L	8/23/2011	89	9.5	3.5	1.4	13	2.7	5.2	<10	<1.0	1 8	<1.0	<1.0	5.5	<1.0	6 5	1.6	<1.0	<0.50	<1.0
W-15C	UG/L	11/8/2011	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1 0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
W-15C	UG/L	1/31/2012	53	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	10	<1.0	<1.0	<1.0	<1.0	4.9	<1.0	5 8	1.5	<1.0	<0.50	<1.0
W-15C	UG/L	5/2/2012	60	0.64	0.67	1.4	6.4	1.3	<1.0	<10	<1.0	3 2	1.2	<1.0	1.3	<1.0	2.1	<1.0	<1.0	<0.50	<1.0
W-15C	UG/L	8/21/2012	140	4.1	1.7	0.92	5 9	1.4	1.7	10	2.9	1 5	<1.0	<1.0	3.7	<1.0	5 2	1.2	<1.0	<0.50	<1.0
W-16A	UG/L	11/9/2007	260	41	<0.36	<0.25	<0.6	<0.3	<0.32	30	<0.41	<0 23	<0.26	<0.32		<0.27	<0 32		2.6	<0.28	16
W-16A	UG/L	2/6/2008	310	40	<2	<2	<2	<2	<5	34	<5	<2	0.63	<2		0.88	<2		2.8	<2	14
W-16A	UG/L	1/21/2009	290	30	<2	<2	<2	<2	<5	<50	<5	<2	<2	<2		<2	<2		2.5	<2	7.2
W-16A	UG/L	4/27/2009	410	34	<2	<2	<2	<2	<5	20	<5	<2	0.27	<2		0.54	<2		1.8	<2	17
W-16A	UG/L	3/5/2010	220	4.2	<0.50	<0.50	<0.50	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0		<1.0	<1.0		<1.0	<0.50	2.9
W-16A	UG/L	5/14/2010	110	<0.50	<0.50	<0.50		<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0		<1.0	<1.0		<1.0	<0.50	<1.0
W-16A	UG/L	8/9/2010	120	0 93	<0.50	<0.50		<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0		<1.0	<1.0		<1.0	<0.50	<1.0
W-16A	UG/L	11/5/2010	90	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1 0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
W-16A	UG/L	2/7/2011	320	12	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0							

Table III
Summary of Total Petroleum Hydrocarbon (TPH) and VOC Results
Former Powerine Refinery
Santa Fe Springs, CA
3Q2012

Location	Unit	Date	TPH-g	B	T	E	m/p-X	o-X	MTBE	TBA	NAP	1,2,4-TMB	1,3,5-TMB	PCE	TCE	t1,2-DCE	c1,2-DCE	1,1-DCE	1,1-DCA	1,2-DCA	VC
W-16B	UG/L	11/9/2007	37	7.4	<0.36	<0.25	<0.6	<0.3	<0.32	9.1	0.8	0.26	<0.26	<0.32		8.7	6.6		<0.27	<0.28	<0.3
W-16B	UG/L	2/6/2008	400	48	<2	0.33	<2	<2	<5	9.9	1.9	0.4	<2	<2		43	27		<2	<2	<5
W-16B	UG/L	1/21/2009	73	16	<2	<2	<2	<2	<5	<50	<5	<2	<2	<2		15	9.7		<2	<2	<5
W-16B	UG/L	4/27/2009	47	0.9	<20	<20	<20	<20	<50	<500	<50	<20	<20	<20		9.4	6.1		<20	<20	<50
W-16B	UG/L	3/8/2010	73	8.6	<0.50	<0.50		<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0		3.7	5.8		<1.0	<0.50	<1.0
W-16B	UG/L	5/14/2010	60	3.0	<0.50	<0.50		<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0		1.0	3.0		<1.0	<0.50	<1.0
W-16B	UG/L	8/9/2010	<50	1.3	<0.50	<0.50		<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0		<1.0	<1.0		<1.0	<0.50	<1.0
W-16B	UG/L	11/5/2010	110	23	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	9.4	13	<1.0	1.2	<0.50	<1.0
W-16B	UG/L	2/7/2011	290	80	<0.50	<0.50	<1.0	<0.50	<1.0	<10	18	<1.0	<1.0	<1.0	3.5	50	70	2.0	8.5	<0.50	2.9
W-16B	UG/L	4/18/2011	550	100	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	6.4	100	89	2.6	9.2	<0.50	10
W-16B	UG/L	8/26/2011	89	20	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	12	16	<1.0	1.4	<0.50	1.1
W-16B	UG/L	11/8/2011	<50	24	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	1.0	19	13	<1.0	1.5	<0.50	<1.0
W-16B	UG/L	2/3/2012	210	30	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	1.4	24	16	<1.0	1.3	<0.50	<1.0
W-16B	UG/L	5/3/2012	410	150	<0.50	0.58	2.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	3.2	100	52	1.2	6.8	<0.50	23
W-16B	UG/L	8/22/2012	61	8.7	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	3.5	6.0	<1.0	<1.0	<0.50	<1.0
W-16C	UG/L	11/9/2007	170	18	<0.36	<0.25	<0.6	<0.3	<0.32	13	<0.41	<0.23	<0.26	<0.32		12	40		11	<0.28	5.6
W-16C	UG/L	2/6/2008	360	30	0.46	<2	<2	<2	<5	21	<5	<2	<2	<2		14	66		24	<2	18
W-16C	UG/L	1/21/2009	510	40	<2	<2	<2	<2	<5	<50	<5	<2	<2	<2		17	73		35	<2	24
W-16C	UG/L	4/28/2009	170	20	<2	<2	<2	<2	<5	8.2	<5	<2	<2	<2		12	41		14	<2	8.2
W-16C	UG/L	3/8/2010	95	2.5	<0.50	<0.50		<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0		1.2	9.1		1.6	<0.50	<1.0
W-16C	UG/L	5/14/2010	63	1.3	<0.50	<0.50		<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0		<1.0	3.8		1.2	<0.50	<1.0
W-16C	UG/L	8/9/2010	<50	<0.50	<0.50	<0.50		<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0		<1.0	<1.0		<1.0	<0.50	<1.0
W-16C	UG/L	8/9/2010	<50	<0.50	<0.50	<0.50		<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0		<1.0	<1.0		<1.0	<0.50	<1.0
W-16C	UG/L	11/5/2010	390	14	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	7.6	30	1.4	11	<0.50	9.6
W-16C	UG/L	2/7/2011	440	33	0.54	<0.50	<1.0	<0.50	<1.0	<10	6.9	<1.0	<1.0	<1.0	<1.0	15	68	3.3	22	<0.50	14
W-16C	UG/L	4/18/2011	510	39	0.51	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	1.2	20	80	4.7	32	<0.50	30
W-16C	UG/L	8/26/2011	320	30	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	15	63	2.8	24	<0.50	16
W-16C	UG/L	11/9/2011	270	24	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	1.2	16	58	2.1	16	<0.50	<1.0
W-16C	UG/L	2/3/2012	250	23	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	1.0	16	54	2.8	17	<0.50	<1.0
W-16C	UG/L	5/3/2012	380	14	<0.50	<0.50	2.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	10	32	<1.0	9.8	<0.50	10
W-16C	UG/L	8/22/2012	520	22	<12	<12	<25	<12	<25	<250	<25	<25	<25	<25	<25	<25	42	<25	<25	<12	<25
W-17A	UG/L	2/14/2008	100	<2	<2	<2	<2	<2	<5	140	<5	<2	<2	<2		<2	6.2		0.47	1.4	0.7
W-17A	UG/L	1/16/2009	78	<2	<2	<2	<2	<2	<5	54	0.41	0.33	<2	<2		0.39	1.4		<2	<2	<5
W-17A	UG/L	4/22/2009	180	4.5	<2	<2	<2	<2	<5	57	<5	<2	<2	<2		1.9	7.7		0.51	0.65	<5
W-17A	UG/L	3/3/2010	51	<0.50	<0.50	<0.50		<0.50	<1.0	14	<1.0	<1.0	<1.0	<1.0		<1.0	1.6		<1.0	<0.50	<1.0
W-17A	UG/L	5/12/2010	110	1.1	<0.50	<0.50		<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0		<1.0	4.2		<1.0	<0.50	<1.0
W-17A	UG/L	8/4/2010	56	<0.50	<0.50	<0.50		<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0		<1.0	1.7		<1.0	<0.50	<1.0
W-17A	UG/L	11/3/2010	69	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.3	<1.0	<1.0	<0.50	<1.0
W-17A	UG/L	2/2/2011	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	2.0	<1.0	<1.0	<0.50	<1.0
W-17A	UG/L	4/20/2011	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	38	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	2.9	<1.0	<1.0	<0.50	<1.0
W-17A	UG/L	8/24/2011	98	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	2.5	<1.0	<1.0	<0.50	<1.0
W-17A	UG/L	11/9/2011	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	9.6	<1.0	<1.0	<0.50	<1.0
W-17A	UG/L	2/7/2012	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	17	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.5	<1.0	<1.0	<0.50	<1.0
W-17A	UG/L	5/4/2012	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	3.8	<1.0	<1.0	<0.50	<1.0
W-17A	UG/L	8/23/2012	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	12	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	2.9	<1.0	<1.0	<0.50	<1.0
W-17B	UG/L	2/14/2008	39	<2	<2	<2	<2	<2	<5	30	<5	<2	<2	<2		<2	1.4		<2	<2	<5
W-17B	UG/L	1/16/2009	38	<2	<2	<2	<2	<2	<5	18	<5	<2	<2	<2		<2	<2		<2	<2	<5
W-17B	UG/L	4/22/2009	<50	<2	<2	<2	<2	<2	<5	18	<5	<2	<2	<2		<2	0.71		<2	<2	<5
W-17B	UG/L	3/3/2010	<50	<0.50	<0.50	<0.50		<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0		<1.0	<1.0		<1.0	<0.50	<1.0
W-17B	UG/L	5/12/2010	54	<0.50	<0.50	<0.50		<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0		<1.0	<1.0		<1.0	<0.50	<1.0
W-17B	UG/L	8/5/2010	<50	<0.50	<0.50	<0.50		<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0		<1.0	<1.0		<1.0	<0.50	<1.0
W-17B	UG/L	11/3/2010	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
W-17B	UG/L	2/2/2011	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
W-17B	UG/L	4/20/2011	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	35	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
W-17B	UG/L	8/24/2011	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
W-17B	UG/L	11/9/2011	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
W-17B	UG/L	2/7/2012	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	14	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
W-17B	UG/L	5/4/2012	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	10	<1.0</										

Table III
Summary of Total Petroleum Hydrocarbon (TPH) and VOC Results
Former Powerine Refinery
Santa Fe Springs, CA
3Q2012

Location	Unit	Date	TPH-g	B	T	E	m/p-X	o-X	MTBE	TBA	NAP	1,2,4-TMB	1,3,5-TMB	PCE	TCE	t1,2-DCE	c1,2-DCE	1,1-DCE	1,1-DCA	1,2-DCA	VC
W-17C	UG/L	11/3/2010	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
W-17C	UG/L	2/2/2011	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
W-17C	UG/L	4/20/2011	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	31	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
W-17C	UG/L	8/24/2011	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
W-17C	UG/L	11/9/2011	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
W-17C	UG/L	2/7/2012	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
W-17C	UG/L	5/4/2012	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	11	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
W-17C	UG/L	8/23/2012	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
W-3A	UG/L	1/13/1998	4300000	150000	<6000	35000			<200000												
W-3A	UG/L	8/20/1998	1100	220	<25	33			440		350	<25	<25	<25		<25	<25		<25	<25	<50
W-3A	UG/L	1/28/1999	690	160	<50	<50			340		240	<50	<50	<50		<50	<50		<50	<50	<100
W-3A	UG/L	7/19/1999	5400	120	<20	<20			380		<200	37	<20	<20		<20	<20		<20	<10	<10
W-3A	UG/L	1/13/2000	14000	140	<10	<10			210		<100	<10	<10	<10		<10	<10		<10	<5	7
W-3A	UG/L	8/4/2000	3400	170	<20	8.4			220		<50	2	2	<2		<2	<20		<20	<1	5
W-3A	UG/L	2/8/2001	2700	34	<1	2.9			12		63	13	4.4	<1		<1	<1		<1	<0.5	1.7
W-3A	UG/L	7/26/2001	3400	42	<1	1.7			6.2		11	15	<1	<1		<1	<1		<1	<0.5	27
W-3A	UG/L	5/6/2002	NS	NS	NS	NS			NS	NS	NS	NS	NS	NS		NS	NS		NS	NS	NS
W-3A	UG/L	9/25/2002	NS	NS	NS	NS			NS	NS	NS	NS	NS	NS		NS	NS		NS	NS	NS
W-3A	UG/L	2/16/2006	306	<1	<5	<5	<5	<5	6.2	16	<5	18	16	<5		<5	<5		<5	<5	<5
W-3A	UG/L	8/3/2006	39000	<2	<2	<2	<2	<2	9	<50	38	<2	<2	<2		<2	<2		<2	<2	<5
W-3A	UG/L	11/9/2006	8100	<2	<2	<2	<2	<2	11	<50	37	6.4	9.5	<2		<2	<2		<2	<2	<5
W-3A	UG/L	2/8/2007	1400	<2	<2	<2	<2	<2	8.4	<50	30	3.9	6.1	<2		<2	<2		<2	<2	<5
W-3A	UG/L	5/10/2007	14000	0.66	<2	<2	<2	<2	7.8	23	16	2.3	3.6	<2		<2	<2		<2	<2	<5
W-3A	UG/L	8/9/2007	1900	0.79	<2	<2	<2	0.34	9.8	26	14	2	2.3	<2		<2	<2		<2	<2	<5
W-3A	UG/L	11/7/2007	1500	0.62	<0.36	<0.25	<0.6	<0.3	9.7	26	<0.41	0.64	0.67	<0.32		<0.27	<0.32		<0.27	<0.28	<0.3
W-3A	UG/L	2/7/2008	180	<2	<2	<2	<2	<2	10	<50	<5	<2	<2	<2		<2	<2		<2	<2	<5
W-4	UG/L	3/1/1990		120	<0.5	19								<0.5		<0.5	3.2		8.3	<0.5	<0.5
W-4	UG/L	4/1/1990		28	1.4	4.8								<1		<1	0.81		2.2	<1	4.3
W-4	UG/L	12/18/1996	420	80	<5	<5			<10		<5	<5	<5	<5		<5	<5		<5	<5	<10
W-4	UG/L	1/14/1998	920	120	<5	<5			<5		<10	<5	<5	<5		<5	<5		<5	<5	16
W-4	UG/L	8/20/1998	500	57	<5	<5			18		<10	<5	<5	<5		<5	<5		<5	<5	9.8
W-4	UG/L	1/29/1999	460	55	<5	<5			20		<10	<5	<5	<5		<5	<5		<5	<5	11
W-4	UG/L	7/19/1999	710	72	<2	<2			<2		<20	<2	<2	<2		<2	<2		<2	<1	<1
W-4	UG/L	1/13/2000	660	49	<1	<1			<1		<10	<1	<1	<1		<1	1.3		<1	<0.5	13
W-4	UG/L	8/3/2000	<500	47	<1	<1					<10	<1	<1	<1		1.2	<1		<1	<0.5	12
W-4	UG/L	2/8/2001	<500	42	<1	<1			<1		<10	<1	<1	<1		<1	<1		1.1	0.67	7
W-4	UG/L	7/26/2001	320	42	<1	<1			<1		<10	<1	<1	<1		<1	<1		1	<0.5	<0.5
W-4	UG/L	5/8/2002	250	33	<1	<1			<1	60000	<10	<1	<1	<1		2	<1		1.3	<0.5	5.2
W-4	UG/L	9/25/2002	290	62	<1	<1			<1	45000	<1	<1	<1	<1		3.8	<1		2	<0.5	<0.5
W-4	UG/L	7/1/2004	350	30	2.6	1.9	0.66	<0.5	<5	<100	<5	<5	<5	<5		1J	3J		2J	<5	11
W-4	UG/L	10/6/2005	350	31	<1	<1	<1	<1	<1	47	<10	<1	<1	<1		<1	6.4		1.7	<0.5	1.3
W-4	UG/L	2/15/2006	501	43	<5	<5	<5	<5	<1	38	<5	<5	<5	<5		<5	2.8		2.5	<5	2.4
W-4	UG/L	8/3/2006	2800	3.5	<2	<2	<2	<2	<5	<50	<5	<2	<2	<2		<2	4.5		<2	<2	<5
W-4	UG/L	11/9/2006	230	6.1	<2	<2	<2	<2	<5	<50	<5	<2	<2	<2		<2	5.1		<2	<2	<5
W-4	UG/L	2/8/2007	200	3.1	<2	<2	<2	<2	<5	<50	<5	<2	<2	<2		<2	4.7		<2	<2	<5
W-4	UG/L	5/10/2007	170	1.5	<2	<2	<2	<2	1.6	30	<5	<2	<2	<2		<2	3.8		<2	<2	1
W-4	UG/L	8/9/2007	280	1	<2	<2	<2	<2	2	18	<5	<2	<2	<2		<2	3.2		<2	<2	0.59
W-4	UG/L	11/7/2007	180	1.9	<0.36	<0.25	<0.6	<0.3	1.4	22	<0.41	<0.23	<0.26	<0.32		<0.27	3.6		0.36	<0.28	<0.3
W-4	UG/L	2/7/2008	210	4.4	<2	<2	<2	<2	<5	55	<1	<2	<2	<2		<1	4.4		<2	<2	<5
W-4	UG/L	2/7/2008	250	3.9	<2	<2	<2	<2	<5	50	<5	<2	<2	<2		<2	4		<2	<2	<5
W-4	UG/L	1/19/2009	140	0.51	<2	<2	<2	<2	<5	47	0.43	<2	<2	<2		<2	7.6		1	<2	1.8
W-4	UG/L	4/27/2009	92	<2	<2	<2	<2	<2	<5	34	<5	<2	<2	<2		<2	7.3		0.61	<2	1.9
W-4	UG/L	3/5/2010	600	1.5	<0.50	<0.50		<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0		<1.0	3.7		<1.0	<0.50	7.4
W-4	UG/L	5/13/2010	700	4.3	<0.50	<0.50		<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0		<1.0	3.1		<1.0	<0.50	5.4
W-4	UG/L	8/6/2010	570	68	<0.50	<0.50		<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0		<1.0	4.0		<1.0	<0.50	7.2
W-4	UG/L	11/4/2010	980	180	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	4.8
W-4	UG/L	2/8/2011	1800	480	<0.50	1.2	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.0	<1.0	<1.0	<0.50	8.6
W-4	UG/L	4/14/2011	1400	460	0.59	1.2	<1.0	<0.50	1.1	38	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.2	<1.0	<1.0	<0.50	11
W-4	UG/L	8/25/2011	840	190	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	1.8
W-4	UG/L	11/14/2011	1200	390	<2.5	0.76	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
W-4	UG/L	2/6/2012	1100	410	<0.50	0.79	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	6.2
W-4	UG/L	5/7/2012	910	140	<0.50	<0.50	<1.0	<0.50	<1.0	21	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	4.1
W-4	UG/L	8/27/2012	910	<0.50	<0.50	<0.50	<1.0	<0.50	1.9	24	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	2.8
W-7	UG/L	8/4/2000	<500	<0.5	<1	<1			<1		<1	<1	<1	<1		<1	<0.5		1.2	<1	<0.5

Table III
Summary of Total Petroleum Hydrocarbon (TPH) and VOC Results
Former Powerine Refinery
Santa Fe Springs, CA
3Q2012

Location	Unit	Date	TPH-g	B	T	E	m/p-X	o-X	MTBE	TBA	NAP	1,2,4-TMB	1,3,5-TMB	PCE	TCE	t1,2-DCE	c1,2-DCE	1,1-DCE	1,1-DCA	1,2-DCA	VC
W-7	UG/L	5/7/2002	<100	<0.5	<1	<1			<1	<10000	<10	<1	<1	<1		<1	<1		<1	<0.5	<0.5
W-7	UG/L	9/24/2002	<100	<0.5	<1	<1			<1	<10000	<10	<1	<1	<1		<1	<1		<1	<0.5	<0.5
W-7	UG/L	10/7/2005	<100	<0.5	<1	<1	<1	<1	<1	<10	<10	<1	<1	<1		<1	<1		<1	<0.5	<0.5
W-7	UG/L	2/16/2006	60.9	<1	<5	<5	<5	<5	<1	<10	<5	1.1	<5	<5		<5	<5		<5	<5	<5
W-7	UG/L	8/4/2006	<50	<2	<2	<2	<2	<2	<5	<50	<5	<2	<2	<2		<2	<2		<2	<2	<5
W-7	UG/L	11/10/2006	<50	<2	<2	<2	<2	<2	<5	<50	<5	<2	<2	<2		<2	<2		<2	<2	<5
W-7	UG/L	2/9/2007	<50	<2	<2	<2	2.6	<2	<5	<50	<5	2.2	<2	<2		<2	<2		<2	<2	<5
W-7	UG/L	5/8/2007	31	0.41	0.45	0.87	1.4	0.75	<5	<50	0.9	1.4	0.35	<2		<2	<2		0.41	<2	<5
W-7	UG/L	8/10/2007	<50	<2	<2	0.25	<2	<2	<5	<50	<5	<2	<2	<2		<2	<2		<2	<2	<5
W-7	UG/L	11/6/2007	<30	<0.28	<0.36	<0.25	<0.6	<0.3	<0.32	<4.9	<0.41	<0.23	<0.26	<0.32		<0.27	<0.32		<0.27	<0.28	<0.3
W-7	UG/L	2/4/2008	<50	<2	<2	<2	<2	<2	<5	<50	<5	<2	<2	<2		<2	<2		<2	<2	<5
W-7	UG/L	1/13/2009	<50	<2	<2	<2	<2	<2	<5	<50	<5	<2	<2	<2		<2	<2		<2	<2	<5
W-7	UG/L	4/21/2009	<50	0.31	<2	<2	<2	<2	<5	<50	<5	<2	<2	<2		<2	<2		1.7	<2	<5
W-7	UG/L	3/4/2010	65	<0.50	<0.50	<0.50		<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0		<1.0	<1.0		2.0	<0.50	<1.0
W-7	UG/L	5/17/2010	60	<0.50	<0.50	<0.50		0.51	<1.0	<10	2.3	<1.0	<1.0	<1.0		<1.0	<1.0		1.9	<0.50	<1.0
W-7	UG/L	8/4/2010	<50	<0.50	<0.50	<0.50		<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0		<1.0	<1.0		2.6	<0.50	<1.0
W-7	UG/L	8/4/2010	<50	<0.50	<0.50	<0.50		<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0		<1.0	<1.0		2.6	<0.50	<1.0
W-7	UG/L	11/3/2010	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	2.5	<0.50	<1.0
W-7	UG/L	2/2/2011	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.4	<0.50	<1.0
W-7	UG/L	4/14/2011	<50	0.57	0.55	0.51	<1.0	0.57	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	2.8	<0.50	<1.0
W-7	UG/L	8/24/2011	<50	0.52	0.50	0.53	<1.0	0.53	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.8	<0.50	<1.0
W-7	UG/L	8/24/2011	<50	<0.50	<0.50	<0.50	<1.0	0.51	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.8	<0.50	<1.0
W-7	UG/L	11/10/2011	<50	<0.50	<0.50	0.56	<1.0	0.61	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.8	<0.50	<1.0
W-7	UG/L	2/8/2012	<50	<0.50	<0.50	0.57	<1.0	0.59	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.6	<0.50	<1.0
W-7	UG/L	5/9/2012	57	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.6	<0.50	<1.0
W-7	UG/L	8/29/2012	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
W-8	UG/L	8/4/2000	<500	2.8	<4.6	<1			<1		<1	<1	<1	<1		<1	<1		<1	<0.5	<0.5
W-8	UG/L	2/6/2001	NS	NS	NS	NS			NS		NS	NS	NS	NS		NS	NS		NS	NS	NS
W-8	UG/L	7/26/2001	180	0.67	<1	<1			<1		<1	<1	<1	<1		<1	<1		<1	<5	<0.5
W-8	UG/L	5/7/2002	180	0.51	<1	<1			<1	<10000	<10	<1	<1	<1		<1	<1		<1	<5	<0.5
W-8	UG/L	9/24/2002	<100	0.64	<1	<1			<1	<10000	<10	<1	<1	<1		<1	<1		<1	<5	<0.5
W-8	UG/L	7/1/2004	390	1.9J	1.8	0.72	0.92	<0.5	<5	<100	<5	<5	<5	<5		<5	<5		<5	<5	<5
W-8	UG/L	10/6/2005	220	0.52	<1	<1	<1	<1	<1	<10	<10	<1	<1	<1		<1	<1		<1	<0.5	<0.5
W-8	UG/L	2/16/2006	192	<1	<5	<5	<5	<5	<1	<10	<5	<5	<5	<5		<5	<5		<5	<5	<5
W-8	UG/L	8/4/2006	130	<2	<2	<2	<2	<2	<5	<50	<5	<2	<2	<2		<2	<2		<2	<2	<5
W-8	UG/L	11/10/2006	210	<2	<2	<2	<2	<2	<5	<50	<5	<2	<2	<2		<2	<2		<2	<2	<5
W-8	UG/L	2/9/2007	130	<2	<2	<2	<2	<2	<5	<50	<5	<2	<2	<2		<2	<2		<2	<2	<5
W-8	UG/L	5/8/2007	110	0.49	0.73	0.33	<2	<2	<5	<50	<5	0.23	<2	<2		<2	<2		<2	<2	<5
W-8	UG/L	8/7/2007	170	0.49	0.82	0.44	<2	0.38	<5	<50	<5	0.3	<2	<2		<2	<2		<2	<2	<5
W-8	UG/L	11/6/2007	160	0.52	0.75	0.4	<0.6	0.3	<0.32	7.5	<0.41	<0.23	<0.26	<0.32		<0.27	<0.32		<0.27	<0.28	<0.3
W-8	UG/L	2/4/2008	160	0.46	0.81	0.39	<2	<2	<5	<50	<5	0.25	<2	<2		<2	<2		<2	<2	<5
W-8	UG/L	1/13/2009	120	<2	<2	<2	<2	<2	<5	<50	<5	<2	<2	<2		<2	<2		<2	<2	<5
W-8	UG/L	4/21/2009	150	0.45	0.82	0.37	<2	<2	<5	<50	<5	<2	<2	<2		<2	<2		<2	<2	<5
W-8	UG/L	3/4/2010	220	<0.50	0.85	<0.50		<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0		<1.0	<1.0		<1.0	<0.50	<1.0
W-8	UG/L	5/17/2010	200	<0.50	<0.50	<0.50		<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0		<1.0	<1.0		<1.0	<0.50	<1.0
W-8	UG/L	5/17/2010	210	<0.50	0.50	<0.50		<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0		<1.0	<1.0		<1.0	<0.50	<1.0
W-8	UG/L	8/4/2010	110	<0.50	0.80	<0.50		<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0		<1.0	<1.0		<1.0	<0.50	<1.0
W-8	UG/L	11/4/2010	140	<0.50	0.60	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
W-8	UG/L	2/7/2011	130	<0.50	0.85	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
W-8	UG/L	4/21/2011	130	0.57	1.1	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
W-8	UG/L	4/21/2011	140	0.56	1.0	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
W-8	UG/L	9/1/2011	2000	0.57	0.77	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
W-8	UG/L	11/10/2011	110	<0.50	0.64	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
W-8	UG/L	2/7/2012	90	<0.50	0.73	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
W-8	UG/L	5/10/2012	180	<0.50	0.87	<0.50	<1.0	<0.50	<1.0	<10	2.9	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
W-8	UG/L	8/29/2012	190	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
W-9	UG/L	11/7/2006	<50	<2	<2	<2	<2	<2	<5	<50	<5	<2	<2	<2		<2	<2		<2	<2	<5
W-9	UG/L	2/6/2007	67	<2	<2	<2	<2	<2	<5	<50	<5	<2	<2	<2		<2	<2		<2	<2	<5
W-9	UG/L	5/9/2007	50	<2	<2	<2	<2	<2	<5	17	<5	<2	<2	<2		<2	2		<2	<2	<5
W-9	UG/L	8/7/2007	38	<2	<2	<2	<2	<2	<5	22	<5	<2	<2	<2		0.31	3		<2	<2	<5
W-9	UG/L	11/6/2007	<30	<0.28	<0.36	<0.25	<0.6	<0.3	<0.32	19	<0.41	<0.23	<0.26	<0.32		0.31	3.8		<0.27	<0.28	<0.

Table III
Summary of Total Petroleum Hydrocarbon (TPH) and VOC Results
Former Powerine Refinery
Santa Fe Springs, CA
3Q2012

Location	Unit	Date	TPH-g	B	T	E	m/p-X	o-X	MTBE	TBA	NAP	1,2,4-TMB	1,3,5-TMB	PCE	TCE	t1,2-DCE	c1,2-DCE	1,1-DCE	1,1-DCA	1,2-DCA	VC
W-9	UG/L	11/3/2010	87	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1 0	<1.0	3 2	<1.0	<1.0	<0.50	<1.0
W-9	UG/L	2/2/2011	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1 0	<1.0	1 5	<1.0	<1.0	<0.50	<1.0
W-9	UG/L	4/14/2011	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1 0	<1.0	5 9	<1.0	<1.0	<0.50	<1.0
W-9	UG/L	8/24/2011	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1 0	<1.0	2.4	<1.0	<1.0	<0.50	<1.0
W-9	UG/L	11/10/2011	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1 0	<1.0	2.1	<1.0	<1.0	<0.50	<1.0
W-9	UG/L	2/8/2012	59	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	13	<1.0	<1.0	<1.0	<1.0	<1 0	<1.0	1 8	<1.0	<1.0	<0.50	<1.0
W-9	UG/L	5/9/2012	89	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	29	<1.0	<1.0	<1.0	<1.0	<1 0	<1.0	2 3	<1.0	<1.0	<0.50	<1.0
W-9	UG/L	8/28/2012	70	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1 0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0

NOTES:
PCE - Tetrachloroethylene
TCE - Trichloroethylene
c1,2-DCE - cis-1,2-Dichloroethene
t1,2-DCE - trans-1,2-Dichloroethene
1,1-DCE - 1,1-Dichloroethene
1,2-DCA - 1,2-Dichloroethane
1,3,5-TMB - 1,3,5-Trimethylbenzene
1,2,4-TMB - 1,2,4-Trimethylbenzene
VC - Vinyl Chloride
B- Benzene
T - Toluene
E - Ethylbenzene
X - Xylenes, total
nBUT - n-Butylbenzene
sBUT - sec-Butylbenzene
tBUT - tert-Butylbenzene
nPRO - n-Propylbenzene
1,1 DCA - 1,1-Dichloroethane
ISO-P - Isopropylbenzene
MC - Methylene Chloride
NAP - Naphthalene
TRIM - Trichlorofluoromethane
PMXY - p/m-Xylenes
OXYL - o-Xylene
DIPE - Diisopropyl Ether (DIPE)
MTBE - Methyl-tert-Butyl Ether (MTBE)
TBA - tert-Butyl Alcohol (TBA)
ND - Not Detected above laboratory detection limits
UG/L - Micrograms per litre
NA - Information not available

Table IV
Summary of Field Test Parameters
Former Powerine Refinery
Santa Fe Springs, California
3Q2012

Well ID	Sample Date	pH (SU)	DO (mg/L)	ORP (mV)
MW-104A	12/18/2009	7.31	5.31	3
MW-104A	3/3/2010	6.93	1.65	66
MW-104A	5/11/2010	8.06	NA	19
MW-104A	8/4/2010	7.65	2.32	205
MW-104A	11/3/2010	8.06	2.00	131
MW-104A	2/2/2011	8.46	3.05	136.4
MW-104A	4/14/2011	8.10	2.85	128.5
MW-104A	8/24/2011	7.53	4.47	19.6
MW-104A	11/10/2011	7.38	5.47	67
MW-104A	2/9/2012	8.79	2.42	-14.5
MW-104A	5/9/2012	8.18	4.36	-39.3
MW-104A	8/27/2012	7.69	1.96	51.9
MW-106A	12/17/2009	7.25	7.29	-112
MW-106A	3/5/2010	6.73	4.71	116
MW-106A	5/13/2010	8.06	7.90	-38
MW-106A	8/6/2010	8.05	4.52	210
MW-106A	11/4/2010	8.23	3.09	77
MW-106A	2/3/2011	NA	NA	NA
MW-106A	4/19/2011	NA	NA	NA
MW-106A	8/25/2011	7.67	2.98	-28.1
MW-106A	11/14/2011	7.03	4.74	33
MW-106A	2/3/2012	NA	NA	NA
MW-106A	8/24/2012	NA	NA	NA
MW-107A	12/17/2009	7.20	6.99	-276
MW-107A	3/5/2010	8.70	1.81	-307
MW-107A	5/13/2010	8.30	NA	-370
MW-107A	8/6/2010	8.10	3.25	-280
MW-107A	11/4/2010	8.16	2.04	-245
MW-107A	2/3/2011	8.49	3.42	-338
MW-107A	4/19/2011	8.02	1.93	-276.8
MW-107A	8/25/2011	7.82	2.68	-216.7
MW-107A	11/14/2011	7.19	3.73	-161.3
MW-107A	1/31/2012	8.88	2.6	-240
MW-107A	5/8/2012	8.40	2.34	-273.6
MW-107A	8/24/2012	8.12	2.89	-226.7
MW-503B	12/15/2009	6.92	7.78	-137
MW-503B	3/8/2010	7.33	3.38	-96
MW-503B	5/17/2010	8.18	1.79	-69
MW-503B	8/9/2010	7.60	2.72	147

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Summary of Field Test Parameters
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Well ID	Sample Date	pH (SU)	DO (mg/L)	ORP (mV)
MW-503B	11/8/2010	7.62	2.93	7
MW-503B	2/4/2011	7.96	2.16	-46
MW-503B	4/15/2011	7.61	1.74	-46.4
MW-503B	8/29/2011	7.50	2.57	-96.1
MW-503B	11/16/2011	6.76	3.01	-41.3
MW-503B	1/31/2012	8.50	3.06	-150.6
MW-503B	5/8/2012	7.73	2.46	-145.0
MW-503B	8/30/2012	8.05	2.50	-13.0
W-1	12/15/2009	7.62	7.10	-39
W-1	3/5/2010	7.51	3.15	-111
W-1	5/13/2010	8.07	2.02	-197
W-1	8/6/2010	7.52	3.22	-22
W-1	11/5/2010	8.13	2.75	38
W-1	2/4/2011	8.18	4.84	-63.7
W-1	4/14/2011	7.65	1.94	37.3
W-1	8/26/2011	7.47	3.16	-86
W-1	11/14/2011	7.08	2.9	-75.9
W-1	2/6/2012	7.99	2.87	-79.4
W-1	5/7/2012	7.85	3.03	-62.4
W-1	8/27/2012	7.90	2.69	-60.4
W-4	12/15/2009	8.27	9.40	21
W-4	3/5/2010	7.09	3.41	-101
W-4	5/13/2010	8.00	3.87	-66
W-4	8/6/2010	7.74	3.48	16
W-4	11/4/2010	7.75	3.50	45
W-4	2/8/2011	7.67	5.53	-3.5
W-4	4/14/2011	7.79	4.47	107.8
W-4	8/25/2011	7.54	4.75	-92.5
W-4	11/14/2011	6.88	4.49	-47.3
W-4	2/6/2012	8.36	3.7	-53.2
W-4	5/7/2012	8.10	3.24	-54
W-4	8/27/2012	8.08	3.84	11.7
W-8	12/18/2009	10.11	7.07	-230
W-9	3/3/2010	7.53	5.66	69
W-9	5/12/2010	8.07	7.15	-175
W-9	8/4/2010	7.36	3.36	-60
W-9	4/5/2011	7.71	4.07	82.3
W-9	8/24/2011	7.62	4.9	-4.9
W-9	11/10/2011	NA	NA	NA

Table IV
Summary of Field Test Parameters
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Well ID	Sample Date	pH (SU)	DO (mg/L)	ORP (mV)
W-9	2/8/2012	8.32	3.95	61.8
W-9	5/9/2012	7.77	3.69	-49.5
W-9	8/28/2012	7.70	2.61	36.6
W-10	12/18/2009	7.21	6.89	-97
W-10	3/8/2010	NA	NA	NA
W-10	5/17/2010	NA	NA	NA
W-10	8/9/2010	NA	NA	NA
W-10	11/3/2010	7.53	3.39	-10
W-10	11/8/2010	NA	NA	NA
W-10	2/2/2011	7.83	3.57	41.6
W-10	2/8/2011	7.28	5.51	-103
W-10	4/15/2011	NA	NA	NA
W-10	8/29/2011	7.14	2.7	-130.2
W-10	11/10/2011	NA	NA	NA
W-10	2/8/2012	NA	NA	NA
W-10	5/10/2012	NA	NA	NA
W-10	8/28/2012	NA	NA	NA
W-11	12/8/2010	NA	NA	NA
W-11	2/4/2011	7.67	5.62	-119
W-11	4/15/2011	7.58	1.68	-77
W-11	8/29/2011	7.35	2.2	-125.7
W-11	11/14/2011	6.93	2.63	-148.6
W-11	2/8/2012	8.38	3.3	45.6
W-11	5/10/2012	7.84	2.75	-76.5
W-11	8/28/2012	7.50	1.56	-122.5
W-12	12/18/2009	6.99	6.96	0
W-12	3/4/2010	7.53	3.15	-63
W-12	5/12/2010	7.87	NA	-180
W-12	8/5/2010	7.61	2.65	-100
W-12	11/4/2010	7.88	2.64	7
W-12	2/3/2011	8.28	2.85	-99
W-12	4/19/2011	7.77	2.10	15.2
W-12	8/25/2011	7.50	2.78	-58.5
W-12	11/14/2011	6.93	3.77	-34.7
W-12	2/8/2012	8.13	2.57	-113
W-12	5/9/2012	7.89	3.22	-74.5
W-12	8/30/2012	7.63	2.15	-98.7
W-14A	12/15/2009	7.65	7.76	-23
W-14A	3/1/2010	6.61	4.09	58

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Summary of Field Test Parameters
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Well ID	Sample Date	pH (SU)	DO (mg/L)	ORP (mV)
W-14A	5/10/2010	8.63	2.74	2
W-14A	8/2/2010	8.02	3.12	145
W-14A	11/1/2010	8.30	2.87	46
W-14A	1/31/2011	8.30	13.16	185.4
W-14A	4/4/2011	8.29	4.81	89.6
W-14A	8/22/2011	7.87	10.15	22.8
W-14A	11/7/2011	7.40	5.23	151.6
W-14A	1/30/2012	8.06	1.48	2.6
W-14A	8/20/2012	8.10	3.44	-76.9
W-14B	12/15/2009	8.37	7.79	97
W-14B	3/1/2010	7.72	2.60	-5
W-14B	5/10/2010	8.43	3.00	-172
W-14B	8/2/2010	7.80	4.60	33
W-14B	11/1/2010	8.13	3.37	37
W-14B	1/31/2011	8.17	19.82	194
W-14B	4/4/2011	8.27	5.95	82.6
W-14B	8/22/2011	7.95	7.90	22.7
W-14B	11/7/2011	7.22	4.92	67.8
W-14B	1/30/2012	8.70	2.90	-133.7
W-14B	8/20/2012	8.27	4.00	-30.3
W-14C	12/15/2009	8.24	8.57	77
W-14C	3/1/2010	7.22	2.43	188
W-14C	5/10/2010	8.17	0.80	-77
W-14C	8/2/2010	7.60	3.55	128
W-14C	11/1/2010	7.89	3.15	49
W-14C	1/31/2011	7.88	10.85	188
W-14C	4/4/2011	7.98	3.27	51.3
W-14C	8/22/2011	7.76	4.24	-3.7
W-14C	11/7/2011	7.33	7.47	59.2
W-14C	1/30/2012	8.75	3.65	-65.2
W-14C	5/1/2012	8.18	4.07	41.5
W-14C	8/20/2012	8.18	4.95	5.1
W-15A	12/14/2009	7.31	9.15	85
W-15A	3/2/2010	7.12	2.67	202
W-15A	5/10/2010	7.90	NA	-228
W-15A	8/2/2010	7.39	1.96	-145
W-15A	11/1/2010	7.67	2.85	32
W-15A	2/1/2011	7.89	2.05	-33
W-15A	4/5/2011	8.00	2.60	-81.7

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Summary of Field Test Parameters
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Well ID	Sample Date	pH (SU)	DO (mg/L)	ORP (mV)
W-15A	8/23/2011	7.47	4.96	-148.7
W-15A	11/8/2011	(FPPH)	(FPPH)	(FPPH)
W-15A	2/2/2012	(FPPH)	(FPPH)	(FPPH)
W-15A	5/2/2012	8.06	3.26	-26.4
W-15A	8/21/2012	(FPPH)	(FPPH)	(FPPH)
W-15B	12/14/2009	7.39	7.44	-58
W-15B	3/2/2010	7.61	2.39	94
W-15B	5/11/2010	8.09	4.36	-15
W-15B	8/3/2010	7.74	3.42	107
W-15B	11/2/2010	8.06	3.18	40
W-15B	2/1/2011	8.15	4.58	286
W-15B	4/5/2011	8.10	2.92	62.4
W-15B	8/23/2011	7.56	3.85	-2.1
W-15B	11/10/2011	7.10	3.07	28.3
W-15B	2/2/2012	8.17	2.31	-69.2
W-15B	5/2/2012	8.00	3.41	-11
W-15B	8/20/2012	8.10	5.08	64.6
W-15C	12/14/2009	7.16	7.18	-53
W-15C	3/2/2010	7.33	2.27	148
W-15C	5/11/2010	8.16	4.73	-21
W-15C	8/3/2010	7.60	2.72	108
W-15C	11/2/2010	7.55	2.40	62
W-15C	2/1/2011	7.81	4.58	123.7
W-15C	4/5/2011	7.92	2.85	109
W-15C	8/23/2011	7.54	4.32	-2.4
W-15C	11/8/2011	7.32	6.00	119.4
W-15C	1/31/2012	8.72	3.11	-60.3
W-15C	5/2/2012	8.00	3.50	6
W-15C	8/21/2012	8.12	2.90	125.7
W-16A	12/16/2009	7.62	6.90	-62
W-16A	3/5/2010	7.03	3.47	-5
W-16A	5/14/2010	8.28	2.23	-54
W-16A	8/9/2010	7.98	2.65	106
W-16A	11/5/2010	8.03	6.15	48
W-16A	2/7/2011	7.82	4.09	249
W-16A	4/18/2011	7.88	4.00	94.9
W-16A	8/26/2011	7.73	4.11	-73.4
W-16A	11/8/2011	7.07	4.36	77.6
W-16A	2/3/2012	8.49	3.67	-70.0

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Summary of Field Test Parameters
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Well ID	Sample Date	pH (SU)	DO (mg/L)	ORP (mV)
W-16A	5/3/2012	7.86	4.09	50.0
W-16A	8/22/2012	7.77	2.47	-77.5
W-16B	12/16/2009	8.23	7.61	-184
W-16B	3/8/2010	8.15	3.20	-236
W-16B	5/14/2010	8.62	0.77	-310
W-16B	8/9/2010	8.01	2.88	-217
W-16B	11/5/2010	8.30	2.68	-119
W-16B	2/7/2011	8.12	3.54	-297
W-16B	4/18/2011	8.47	2.56	-247
W-16B	8/26/2011	8.01	2.72	-217.4
W-16B	11/8/2011	6.89	8.68	-63.8
W-16B	2/3/2012	9.21	2.55	-206.7
W-16B	5/3/2012	8.74	3.06	-194.3
W-16B	8/22/2012	8.62	2.90	-200.0
W-16C	12/16/2009	8.15	7.12	-206
W-16C	3/8/2010	8.33	3.64	-237
W-16C	5/14/2010	8.68	NA	-295
W-16C	8/9/2010	8.02	2.57	-165
W-16C	11/5/2010	8.24	2.37	-72
W-16C	2/7/2011	8.03	4.34	-285
W-16C	4/18/2011	8.55	2.88	-249.5
W-16C	8/26/2011	7.81	2.71	-223.2
W-16C	11/9/2011	7.57	6.94	-185
W-16C	2/3/2012	8.84	2.51	-253.2
W-16C	5/3/2012	8.52	3.00	-205.8
W-16C	8/22/2012	8.30	2.60	-138.7
W-17A	12/18/2009	8.02	7.10	30
W-17A	3/3/2010	6.67	5.41	74
W-17A	5/12/2010	8.25	0.88	-40
W-17A	8/4/2010	7.78	2.35	62
W-17A	11/3/2010	8.17	2.95	76
W-17A	2/2/2011	8.36	5.96	349
W-17A	4/20/2011	7.85	3.51	-5.8
W-17A	8/24/2011	7.85	3.23	2.6
W-17A	11/9/2011	7.19	4.78	-13
W-17A	2/7/2012	8.46	2.87	-20
W-17A	5/4/2012	8.20	3.45	-43.8
W-17A	8/23/2012	8.12	2.36	20.5
W-17B	12/18/2009	8.49	7.18	-173

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Well ID	Sample Date	pH (SU)	DO (mg/L)	ORP (mV)
W-17B	3/3/2010	7.87	4.80	-197
W-17B	5/12/2010	8.35	NA	-313
W-17B	8/5/2010	7.96	2.31	-189
W-17B	11/3/2010	8.09	2.56	-25
W-17B	2/2/2011	8.43	3.45	-269
W-17B	4/20/2011	8.11	3.32	-168.5
W-17B	8/24/2011	7.88	3.41	-153.7
W-17B	11/9/2011	7.52	2.94	-136.4
W-17B	2/7/2012	8.65	2.50	-174.3
W-17B	5/4/2012	8.40	2.87	-118.7
W-17B	8/23/2012	8.25	2.13	-156.5
W-17C	12/18/2009	8.79	8.74	-177
W-17C	3/4/2010	7.96	5.90	-209
W-17C	5/12/2010	8.49	3.03	-322
W-17C	8/5/2010	8.01	2.64	-167
W-17C	11/3/2010	8.16	2.79	-120
W-17C	2/2/2011	8.47	3.96	-301
W-17C	4/20/2011	8.26	2.08	-223.7
W-17C	8/24/2011	7.94	3.12	-201.7
W-17C	11/9/2011	7.43	3.36	-159.7
W-17C	2/7/2012	8.80	2.73	-226.4
W-17C	5/4/2012	8.50	2.56	-168.5
W-17C	8/23/2012	8.39	2.39	-177.5
EW-1	2/3/2011	7.90	6.61	-258
EW-1	4/13/2011	8.15	2.86	-210
EW-1	8/29/2011	7.62	2.74	-293
EW-1	11/16/2011	(FPPH)	(FPPH)	(FPPH)
EW-1	2/6/2012	(FPPH)	(FPPH)	(FPPH)
EW-1	5/7/2012	(FPPH)	(FPPH)	(FPPH)
EW-1	8/24/2012	(FPPH)	(FPPH)	(FPPH)
MW-701	2/4/2011	6.09	NA	NA
MW-701	4/11/2011	7.60	3.67	180.6
MW-701	8/30/2011	7.50	3.98	-31.2
MW-701	11/16/2011	6.90	2.93	25.9
MW-701	2/1/2012	8.18	4.3	-58.5
MW-701	5/11/2012	7.89	3.45	-8.8
MW-701	8/31/2012	7.97	4.00	28.7
MW-702	2/4/2011	6.04	NA	NA
MW-702	4/12/2011	7.70	3.29	103.1

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Well ID	Sample Date	pH (SU)	DO (mg/L)	ORP (mV)
MW-702	8/30/2011	7.34	3.23	-155.3
MW-702	11/16/2011	7.07	2.67	-172.7
MW-702	2/9/2012	7.89	4.73	-60.7
MW-702	5/11/2012	7.77	3.14	-99.9
MW-702	8/31/2012	7.76	3.48	-92.8
MW-703	2/4/2011	6.25	NA	NA
MW-703	4/12/2011	7.57	3.53	132.4
MW-703	8/30/2011	7.30	4.2	-87.1
MW-703	11/17/2011	6.92	2.77	-98
MW-703	2/14/2012	8.11	4.07	-26.3
MW-703	5/11/2012	7.85	3.13	-72.6
MW-703	8/31/2012	7.68	3.20	-21.3
MW-704	2/9/2011	6.08	NA	NA
MW-704	4/13/2011	7.46	4.60	134.6
MW-704	8/31/2011	7.40	4.02	99.4
MW-704	11/17/2011	6.93	2.51	-148.8
MW-704	2/14/2012	7.80	4.2	-31.6
MW-704	5/14/2012	7.60	5.25	-30.0
MW-704	9/4/2012	7.87	2.85	31.7
MW-705	2/4/2011	6.01	NA	NA
MW-705	4/12/2011	7.79	3.40	127.6
MW-705	8/31/2011	7.78	3.7	-55.5
MW-705	11/17/2011	7.04	3.16	-130.7
MW-705	2/14/2012	8.12	4.09	-57.6
MW-705	5/14/2012	7.88	2.50	-65.0
MW-705	9/4/2012	7.80	3.47	-28.4
MW-706	2/4/2011	6.21	NA	NA
MW-706	4/11/2011	7.99	4.02	158.7
MW-706	8/31/2011	7.76	3.03	-41.2
MW-706	11/18/2011	6.93	3.06	180.8
MW-706	2/14/2012	8.16	3.00	-52.7
MW-706	5/14/2012	7.87	2.77	-63.5
MW-706	9/4/2012	7.84	3.24	18.2
MW-707	2/4/2011	6.22	NA	NA
MW-707	4/8/2011	7.89	3.24	51.9
MW-707	9/1/2011	7.30	3.73	-9.4
MW-707	11/18/2011	6.89	2.8	11.3
MW-707	2/1/2012	8.19	3.1	-147
MW-707	5/15/2012	7.75	2.50	-72.6

Table IV
Summary of Field Test Parameters
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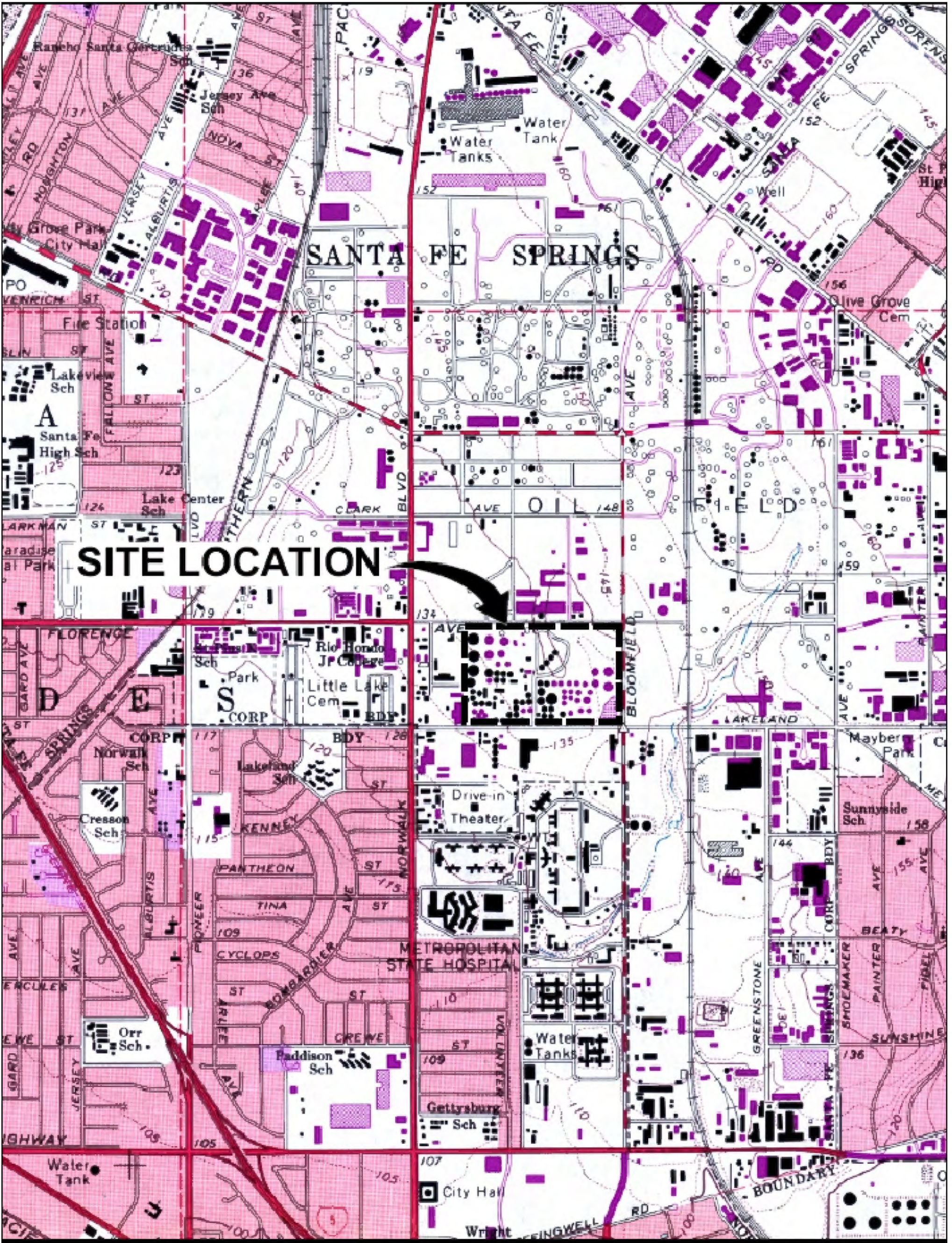
Well ID	Sample Date	pH (SU)	DO (mg/L)	ORP (mV)
MW-707	9/4/2012	7.55	3.26	-44.5
MW-708	2/4/2011	5.99	NA	NA
MW-708	4/6/2011	7.84	3.03	-119.8
MW-708	9/1/2011	7.51	3.45	-147.2
MW-708	11/18/2011	7.00	3.56	-161.3
MW-708	2/10/2012	8.09	2.75	-140.2
MW-708	5/15/2012	7.79	2.36	-136.1
MW-708	9/5/2012	7.78	2.39	-113.1
MW-709	2/4/2011	6.27	NA	NA
MW-709	4/6/2011	8.08	3.74	149.6
MW-709	9/1/2011	7.38	2.97	-37
MW-709	11/21/2011	6.76	2.97	148.5
MW-709	2/10/2012	8.08	2.61	-57.1
MW-709	5/16/2012	7.70	3.12	9.3
MW-709	9/5/2012	7.82	2.07	-113.1
MW-710	2/8/2011	6.18	NA	NA
MW-710	4/7/2011	7.88	3.54	97.7
MW-710	9/2/2011	6.87	3.68	-10.2
MW-710	11/21/2011	6.81	2.86	255.6
MW-710	2/1/2012	8.47	3.45	-64.8
MW-710	5/16/2012	7.80	4.04	21.5
MW-710	9/5/2012	7.85	2.32	30.5
MW-711	2/8/2011	5.99	NA	NA
MW-711	4/6/2011	7.91	3.39	-59.2
MW-711	9/2/2011	7.06	3.54	-99.8
MW-711	11/21/2011	6.87	2.95	-133.6
MW-711	2/10/2012	8.04	3.45	-96.7
MW-711	5/16/2012	7.73	2.37	-73.0
MW-711	9/5/2012	7.76	2.04	-175.4
MW-712	2/7/2011	6.03	NA	NA
MW-712	4/7/2011	7.74	3.08	21.7
MW-712	9/2/2011	7.10	2.68	-59.7
MW-712	11/21/2011	6.90	2.65	-90.4
MW-712	2/13/2012	7.90	3.88	-83.5
MW-712	5/17/2012	7.71	2.80	-13.3
MW-712	9/6/2012	7.68	1.87	-42.0
MW-713	2/7/2011	6.13	NA	NA
MW-713	4/8/2011	7.95	3.84	99.5
MW-713	9/2/2011	7.20	3.13	-51.4

Table IV
Summary of Field Test Parameters
Former Powerine Refinery
Santa Fe Springs, California
3Q2012

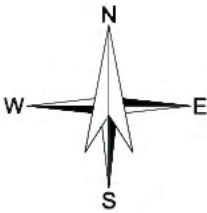
Well ID	Sample Date	pH (SU)	DO (mg/L)	ORP (mV)
MW-713	11/22/2011	6.98	3.07	-28.7
MW-713	2/13/2012	7.97	3.65	-77.7
MW-713	5/17/2012	7.70	3.11	-13.1
MW-713	9/6/2012	7.62	2.16	-120.7
MW-714	2/8/2011	6.20	NA	NA
MW-714	4/7/2011	7.92	3.53	33.6
MW-714	9/2/2011	7.21	3.15	-63.4
MW-714	11/22/2011	6.96	2.77	-24.2
MW-714	2/13/2012	8.05	4.32	-70.5
MW-714	5/17/2012	4.60	3.00	-10.7
MW-714	9/6/2012	7.66	2.58	-50.0
MW-715	2/14/2011	7.50	NA	NA
MW-715	4/8/2011	7.78	2.59	16.3
MW-715	9/2/2011	7.15	3.2	-89.8
MW-715	11/22/2011	6.90	2.73	-125.4
MW-715	2/1/2012	8.32	2.87	-174.2
MW-715	5/17/2012	4.20	2.58	-50.5
MW-715	9/6/2012	7.66	1.97	-98.9

Notes:

DO dissolved oxygen
mg/L milligram(s) per liter
mV millivolts
ORP oxidation-reduction potential
SU standard units
NA Not Available



SOURCE OF BASE MAP
U.S. GEOLOGICAL SURVEY, 7.5 MIN QUAD., WHITTIER, CA. 1965, PHOTOREVISED 1981



SCALE: NOT TO SCALE

FORMER POWERLINE REFINERY
12345 LAKELAND ROAD
SANTA FE SPRINGS, CALIFORNIA

SITE LOCATION MAP



FIGURE
1

DRAWN BY: RLM REVISION DATE: 5/15/12 REVISED BY: BER

FX-9 Wells

FX-9 Wells

FX-9 Wells

FX-9 Wells

FX-9 Wells

FX-9 Wells

FX-9 Wells

FX-9 Wells

FX-9 Wells

FX-9 Wells

FX-9 Wells

FX-9 Wells

Appendix A

GROUNDWATER SAMPLING LOG

PROJECT NAME: CENCO
PROJECT NO.: 1003-001-300
DATE: 8.24.12 3Q2012

WELL NO. EW-1 Walker
SAMPLED BY: Frane Sasic

WELL NOTES: Typically has FPPH

WELL CONDITION:

OK - lock is very corroded

WEATHER CONDITIONS:

Overcast & humid (~73°F)

PURGING AND SAMPLING EQUIPMENT:

YSI 556

Interface probe (200')

WELL INFORMATION	
TOP OF CASING ELEV.	(ft.)
WELL DIAMETER	4" (with airline) (inches)
DEPTH OF WELL	113.00 (ft.)
DEPTH TO WATER	106.56 (ft.)
HEIGHT OF WATER COLUMN	(ft.)
CASING VOLUME*	Hgt. x 0.163 Gal./Ft. = (gal)
PURGE VOLUME	x 3 = (gal)
PRODUCT THICKNESS	106.56 (DW) - 105.53 (FPPH) = 1.03 (ft.)

PURGE DATA											
Time:	Purge Volume (Gal.)	Flow Rate (Gal./Min.)	pH	Sp.Cond. (s/cm)	Turbidity NTUs	DO mg/L	Temperature (F / C)	TDS	ORP	Color	Odor
/	/	/	FPPH	/	/	/	/	/	/	/	/

* NO PARAMETERS COLLECTED DUE TO FREE PRODUCT *

Sample No.	Sample Time	Packing	Analyses	Container	Quantity	Preservative	NOTES:
NOT SAMPLED		ice	8260B - VOCs + OxyS	VOAs	3	HCL	FPPH product top-down skim
NOT SAMPLED		ice	8015M - TPH-g	VOAs	3	HCL	EW-1 capped and air line not used; stinger raised ~ 8' ags to get above FPPH / water interface.
							Dark brown product begins purging immediately.
							Emulsion layer is a chocolate milk color + consistency.
							GW is cloudy / yellowish

ADDITIONAL INFORMATION:

TOC = Top of well casing

*Casing Volume = $r^2h(ft) \times 7.48 \text{ gal/ft}^3$

25 gal → (discarded from KC)

15 gal → (vacuum stopped to allow product recharge) @ 11:55

12:13 Pump resumed... dark brown product returns almost immediately

Not much FPPH before emulsion layer from GW

1K

① 50 gal total (7* run) + 50 gal (2nd run)

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③ Air line connected + stinger lowered to bottom of well.

Approx. 10-15 gallons of FPPH removed from well EW-1

Approx. 200 gallons of GW removed

2" well = 0.163 Gal./Foot

! Well bottom appears to be damaged or broken out as lots of sand (and/or gravel) began coming up immediately when air line was activated. Stinger pulled down passed TOC!

4 x 30 gallons = 120 + 50 + 50 = 220

GROUNDWATER SAMPLING LOG

PROJECT NAME: CENCO
 PROJECT NO.: 1003-001-300
 DATE: 8-27-2012 3Q2012

WELL NO. W-1 Walker
 SAMPLED BY: Frane Sasic

WELL NOTES:
 WELL CONDITION: OK

WEATHER CONDITIONS:
 Clear/sunny/light breeze (~91°F)

PURGING AND SAMPLING EQUIPMENT:
 YSI 556
 Interface probe (200')

WELL INFORMATION	
TOP OF CASING ELEV.	(ft.)
WELL DIAMETER 4"	(inches)
DEPTH OF WELL 130.00	(ft.)
DEPTH TO WATER 108.73	(ft.)
HEIGHT OF WATER COLUMN 21.27	(ft.)
CASING VOLUME* Hgt. x 0.163 Gal./Ft. = 14.0382	(gal)
PURGE VOLUME x 3 = 42.1146	(gal)
PRODUCT THICKNESS	(ft.)

PURGE DATA											
Time:	Purge Volume (Gal.)	Flow Rate (Gal./Min.)	pH	Sp.Cond. $\mu\text{S/cm}$	Turbidity NTUs	DO mg/L	Temperature (F/C)	TDS	ORP mV	Color	Odor
1342	5	NAC TRUCK	7.99	2.532	/	3.21	26.54	/	-80.6	Cloudy	Mild
1345	10		7.98	2.521	/	2.79	25.76	/	-77.9	Clear	Mild
1349	15	↓	8.00	2.507	/	2.06	25.04	/	-78.3	Clear	Mild

Sample No.	Sample Time	Packing	Analyses	Container	Quantity	Preservative	NOTES:
1	8-27-12	ice	8260B - VOCs + Oxys	VOAs	3	HCL	LL-W1-082712-01 @ 14:38
1	14:38	ice	8015M - TPH-g	VOAs	3	HCL	

ADDITIONAL INFORMATION:

TOC = Top of well casing

*Casing Volume = $r^2h(\text{ft}) \times 7.48 \text{ gal/ft.}^3$

4" well = 0.66 Gal./Foot

2" well = 0.163 Gal./Foot

Page 2 of 2

PROJECT NO.: 1003-001-300

DATE: 8.27.2012

WELL NO. W-1

SAMPLED BY: Frane Sosic

[illegible]

GROUNDWATER SAMPLING LOG

PROJECT NAME: CENCO
 PROJECT NO.: 1003-001-300
 DATE: 8.27.12 3Q2012

WELL NO. W-4 Walker
 SAMPLED BY: Frane Sosic

WELL NOTES:

WELL CONDITION:

OK - lid doesn't bolt down

WEATHER CONDITIONS:

Clear/sunny (~75°F)

PURGING AND SAMPLING EQUIPMENT:

YSI 556

Interface probe (200')

WELL INFORMATION	
TOP OF CASING ELEV.	(ft.)
WELL DIAMETER 4"	(inches)
DEPTH OF WELL 130.00	(ft.)
DEPTH TO WATER 109.65	(ft.)
HEIGHT OF WATER COLUMN 20.35	(ft.)
CASING VOLUME* Hgt. x 0.163 Gal./Ft. = 13.43	(gal)
PURGE VOLUME x 3 = 40.293	(gal)
PRODUCT THICKNESS	(ft.)

PURGE DATA											
Time:	Purge Volume (Gal.)	Flow Rate (Gal./Min.)	pH	Sp. Cond. (S/cm)	Turbidity NTUs	DO mg/L	Temperature (F/C)	TDS	ORP mV	Color	Odor
1020	5		8.11	2.213	/	3.93	23.62	/	-69.0	Clear	Mild
1032	10		8.19	2.258	/	2.70	23.35	/	-90.8	Clear	Mild
1038	15		8.22	2.228	/	2.57	23.10	/	-77.7	Clear	Mild

Sample No.	Sample Time	Packing	Analyses	Container	Quantity	Preservative	NOTES:
1	8.27.12	ice	8260B - VOCs + Oxys	VOAs	3	HCL	LL-W4-082712-01 @ 12:30
1	1230	ice	8015M - TPH-g	VOAs	3	HCL	

ADDITIONAL INFORMATION:

TOC = Top of well casing

*Casing Volume = $r^2 h (ft) \times 7.48 \text{ gal/ft.}^3$

4" well = 0.66 Gal./Foot

2" well = 0.163 Gal./Foot

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Page 2 of 2

PROJECT NO.: 1003-001-300

DATE: 8.27.2012

WELL NO. W-4

SAMPLED BY: Frane Sosic

[illegible]

GROUNDWATER SAMPLING LOG

PROJECT NAME: CENCO
 PROJECT NO.: 1003-001-300
 DATE: 3Q2012 8.29.12

WELL NO. W-7 Site
 SAMPLED BY: Frane Sasic

WELL NOTES: No purge well (sample in any order)
 WELL CONDITION:

WEATHER CONDITIONS:

PURGING AND SAMPLING EQUIPMENT:
 YSI 556
 Interface probe (200')

WELL INFORMATION	
TOP OF CASING ELEV.	(ft.)
WELL DIAMETER ~16"	(inches)
DEPTH OF WELL	(ft.)
DEPTH TO WATER	(ft.)
HEIGHT OF WATER COLUMN	(ft.)
CASING VOLUME* Hgt. x 0.163 Gal./Ft. =	(gal)
PURGE VOLUME x 3 =	(gal)
PRODUCT THICKNESS	(ft.)

PURGE DATA											
Time:	Purge Volume (Gal.)	Flow Rate (Gal./Min.)	pH	Sp.Cond. (s/cm)	Turbidity NTUs	DO mg/L	Temperature (F / C)	TDS	ORP	Color	Odor

Sample No.	Sample Time	Packing	Analyses	Container	Quantity	Preservative	NOTES:
1	8.29.12	ice	8260B - VOCs + Oxys	VOAs	3	HCL	LL-W7-082912-01 @ 8:00
1	800	ice	8015M - TPH-g	VOAs	3	HCL	

ADDITIONAL INFORMATION:

TOC = Top of well casing

*Casing Volume = $r^2h(ft) \times 7.48 \text{ gal/ft.}^3$

4" well = 0.66 Gal./Foot

2" well = 0.163 Gal./Foot

GROUNDWATER SAMPLING LOG

PROJECT NAME: CENCO
 PROJECT NO.: 1003-001-300
 DATE: 3Q2012 8.29.12

WELL NO. W-8 Site
 SAMPLED BY: Frane Sasic

WELL NOTES: No purge well (sample in any order)

WELL CONDITION:

WEATHER CONDITIONS:

PURGING AND SAMPLING EQUIPMENT:

YSI 556

Interface probe (200')

WELL INFORMATION	
TOP OF CASING ELEV.	(ft.)
WELL DIAMETER ~ 14"	(inches)
DEPTH OF WELL	(ft.)
DEPTH TO WATER	(ft.)
HEIGHT OF WATER COLUMN	(ft.)
CASING VOLUME* Hgt. x 0.163 Gal./Ft. =	(gal)
PURGE VOLUME x 3 =	(gal)
PRODUCT THICKNESS	(ft.)

PURGE DATA											
Time:	Purge Volume (Gal.)	Flow Rate (Gal./Min.)	pH	Sp.Cond. (s/cm)	Turbidity NTUs	DO mg/L	Temperature (F / C)	TDS	ORP	Color	Odor

Sample No.	Sample Time	Packing	Analyses	Container	Quantity	Preservative	NOTES:
1	8.29.12	ice	8260B - VOCs + Oxys	VOAs	3	HCL	LL-W8-082912-01 @ 11:30
1	1130	ice	8015M - TPH-g	VOAs	3	HCL	

ADDITIONAL INFORMATION:

TOC = Top of well casing

*Casing Volume = $r^2h(ft) \times 7.48 \text{ gal/ft.}^3$

4" well = 0.66 Gal./Foot

2" well = 0.163 Gal./Foot

GROUNDWATER SAMPLING LOG

PROJECT NAME: CENCO
 PROJECT NO.: 1003-001-300
 DATE: 8.28.12 3Q2012

WELL NO. W-9 Site
 SAMPLED BY: Frane Sasic

WELL INFORMATION	
TOP OF CASING ELEV.	(ft.)
WELL DIAMETER 2"	(inches)
DEPTH OF WELL 110.00	(ft.)
DEPTH TO WATER 90.86	(ft.)
HEIGHT OF WATER COLUMN 19.14	(ft.)
CASING VOLUME* Hgt. x 0.163 Gal./Ft. = 3.11982	(gal)
PURGE VOLUME x 3 = 9.35946	(gal)
PRODUCT THICKNESS	(ft.)

WELL CONDITION:
 OK - does not bolt down

WEATHER CONDITIONS:
 Clear/sunny/light breeze (~80°F)

PURGING AND SAMPLING EQUIPMENT:
 YSI 556
 Interface probe (200')

PURGE DATA											
Time:	Purge Volume (Gal.)	Flow Rate (Gal./Min.)	pH	Sp.Cond. $\mu S/cm$	Turbidity NTUs	DO mg/L	Temperature (F/C)	TDS	ORP mV	Color	Odor
0834	5		7.70	2.566	/	2.61	26.46	/	36.6	Rusty	Slight
	10*										

Sample No.	Sample Time	Packing	Analyses	Container	Quantity	Preservative	NOTES:
1	8.28.12	ice	8260B - VOCs + Oxys	VOAs	3	HCL	* W-9 went dry ~ 6 gallons. Allowed to recharge prior to sampling. LL-W9_082812_01 @ 10:00
1	1000	ice	8015M - TPH-g	VOAs	3	HCL	

ADDITIONAL INFORMATION:

TOC = Top of well casing

*Casing Volume = $r^2h(ft) \times 7.48 \text{ gal/ft.}^3$

4" well = 0.66 Gal./Foot

2" well = 0.163 Gal./Foot

GROUNDWATER SAMPLING LOG

PROJECT NAME:	CENCO
PROJECT NO.:	1003-001-300
DATE:	3Q2012 8.23.12 / 8.28.12 (Purged) (Sampled)

WELL NO. **W-10** Site 2

SAMPLED BY: Frane Sosic

WELL NOTES: Slow recharge: purge 1-2 days prior to collecting the sample

WELL CONDITION:
OK

WEATHER CONDITIONS:
Clear/sunny/warm (~86°F)
light breeze

PURGING AND SAMPLING EQUIPMENT:

YSI 556

Interface probe (200')

WELL INFORMATION

TOP OF CASING ELEV.		(ft.)
WELL DIAMETER	2"	(inches)
DEPTH OF WELL		(ft.)
DEPTH TO WATER		(ft.)
HEIGHT OF WATER COLUMN		(ft.)
CASING VOLUME*	Hgt. x 0.163 Gal./Ft. =	(gal)
PURGE VOLUME	x 3 =	(gal)
PRODUCT THICKNESS		(ft.)

PURGE DATA

[illegible]

Sample No.	Sample Time	Packing	Analyses	Container	Quantity	Preservative	NOTES:
1	8:28:12	ice	8260B - VOCs + Oxys	VOAs	3	HCL	No parameters collected as well went dry
1	12:47	ice	8015M - TPH-g	VOAs	3	HCL	W-10 purged dry ~ 2-3 gallons Will allow it to recharge for several days prior to sampling
							LL-W10-082812_01 @ 1247

ADDITIONAL INFORMATION:

TOC = Top of well casing

*Casing Volume = $r^2h(\text{ft}) \times 7.48 \text{ gal/ft.}^3$

4" well = 0.66 Gal./Foot

2" well = 0.163 Gal./Foot

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GROUNDWATER SAMPLING LOG

PROJECT NAME: CENCO
PROJECT NO.: 1003-001-300
DATE: 8.28.12 3Q2012

WELL NO. W-11 Site 2
SAMPLED BY: Frane Sasic

WELL NOTES: Historically contained FPPH

WELL CONDITION:

Very Good

WEATHER CONDITIONS:

Clear/sunny/breezy (~95°F)

PURGING AND SAMPLING EQUIPMENT:

YSI 556

Interface probe (200')

WELL INFORMATION	
TOP OF CASING ELEV.	(ft.)
WELL DIAMETER 2"	(inches)
DEPTH OF WELL 113.00	(ft.)
DEPTH TO WATER 96.74	(ft.)
HEIGHT OF WATER COLUMN 16.26	(ft.)
CASING VOLUME* Hgt. x 0.163 Gal./Ft. = 2.65038	(gal)
PURGE VOLUME x 3 = 7.95114	(gal)
PRODUCT THICKNESS 96.74 (DTW) - 96.65 (FPPH) = 0.09 (shred)	(ft.)

PURGE DATA											
Time:	Purge Volume (Gal.)	Flow Rate (Gal./Min.)	pH	Sp.Cond. $\mu S/cm$	Turbidity NTUs	DO mg/L	Temperature (F/C)	TDS	ORP mV	Color	Odor
1400	5	VAC TRUCK	7.53	1.974	/	4.20	29.30	/	-115.6	Light gray	Strong
1419	10		7.62	1.976	/	3.27	29.33	/	-120.2	Cloudy	Strong
1436	15		7.50	1.955	/	1.56	28.46	/	-122.5	Cloudy	Strong

Sample No.	Sample Time	Packing	Analyses	Container	Quantity	Preservative	NOTES:
1	8.28.12	ice	8260B - VOCs + Oxys	VOAs	3	HCL	LL-W11-082812-01 @ 1526
1	1526	ice	8015M - TPH-g	VOAs	3	HCL	

ADDITIONAL INFORMATION:

TOC = Top of well casing

*Casing Volume = $r^2h(ft) \times 7.48 \text{ gal./ft.}^3$

4" well = 0.66 Gal./Foot

2" well = 0.163 Gal./Foot

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GROUNDWATER SAMPLING LOG

PROJECT NAME: CENCO
PROJECT NO.: 1003-001-300
DATE: 3Q2012 8.30.2012

WELL NO. W-12 Site
SAMPLED BY: Frane Sosic

WELL NOTES: May Be Dry

WELL CONDITION:

GOOD

WEATHER CONDITIONS:

Partly cloudy & humid (~93°F)

scattered rain showers

PURGING AND SAMPLING EQUIPMENT:

YSI 556

Interface probe (200')

WELL INFORMATION	
TOP OF CASING ELEV.	(ft.)
WELL DIAMETER 2"	(inches)
DEPTH OF WELL 116.00	(ft.)
DEPTH TO WATER 101.91	(ft.)
HEIGHT OF WATER COLUMN 14.09	(ft.)
CASING VOLUME* Hgt. x 0.163 Gal./Ft. = 2.29667	(gal)
PURGE VOLUME x 3 = 6.89001	(gal)
PRODUCT THICKNESS	(ft.)

PURGE DATA											
Time:	Purge Volume (Gal.)	Flow Rate (Gal./Min.)	pH	Sp.Cond. $\mu\text{S/cm}$	Turbidity NTUs	DO mg/L	Temperature (F/C)	TDS	ORP mV	Color	Odor
1327	5		7.87	2.042	/	2.57	27.44	/	-97.0	Cloudy	Mild
1353	10		7.63	2.030	/	2.15	27.88	/	-98.7	Cloudy	Mild

Sample No.	Sample Time	Packing	Analyses	Container	Quantity	Preservative	NOTES:
1	8.30.12	ice	8260B - VOCs + Oxys	VOAs	3	HCL	LL_W12_083012_01 @ 1423
1	1423	ice	8015M - TPH-g	VOAs	3	HCL	

ADDITIONAL INFORMATION:

TOC = Top of well casing

*Casing Volume = $r^2h(\text{ft}) \times 7.48 \text{ gal/ft.}^3$

4" well = 0.66 Gal./Foot

2" well = 0.163 Gal./Foot

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GROUNDWATER SAMPLING LOG

PROJECT NAME: CENCO
PROJECT NO.: 1003-001-300
DATE: 8.20.12 3Q2012

WELL NO. MW-14A Hospital
SAMPLED BY: Frane Sosic / AW

WELL INFORMATION	
TOP OF CASING ELEV.	(ft.)
WELL DIAMETER 2"	(inches)
DEPTH OF WELL 112.00	(ft.)
DEPTH TO WATER 93.03	(ft.)
HEIGHT OF WATER COLUMN 18.97	(ft.)
CASING VOLUME* Hgt. x 0.163 Gal./Ft. = 3.09211	(gal)
PURGE VOLUME x 3 = 9.27633	(gal)
PRODUCT THICKNESS	(ft.)

WELL CONDITION:

GOOD

WEATHER CONDITIONS:

Clear/sunny/warm (~80°F)

PURGING AND SAMPLING EQUIPMENT:

YSI 556

Interface probe (200')

PURGE DATA											
Time:	Purge Volume (Gal.)	Flow Rate (Gal./Min.)	pH	Sp.Cond. (µS/cm)	Turbidity NTUs	DO mg/L	Temperature (F/C)	TDS	ORP mV	Color	Odor
815	5	VAC TRUCK	7.50	1.450	/	4.03	23.55	/	-56.1	Clear	Mild
818	10		7.98	1.490	/	3.16	23.14	/	-88.0	Clear	Mild
820	15		8.04	1.516	/	3.07	23.05	/	-97.7	Clear	Mild
825	20		8.10	1.540	/	3.44	23.13	/	-76.9	Clear	Mild
Sample No.	Sample Time	Packing	Analyses	Container	Quantity	Preservative	NOTES:				
1	8.20.12	ice	8260B - VOCs + Oxys	VOAs	3	HCL	LL-14A-082012-01 @ 8:40				
1	8:40	ice	8015M - TPH-g	VOAs	3	HCL					

ADDITIONAL INFORMATION:

TOC = Top of well casing

*Casing Volume = $r^2 h (\text{ft}) \times 7.48 \text{ gal/ft.}^3$

4" well = 0.66 Gal./Foot

2" well = 0.163 Gal./Foot

GROUNDWATER SAMPLING LOG

PAGE 1 OF 2

PROJECT NAME: CENCO
PROJECT NO.: 1003-001-300
DATE: 8.20.12 3Q2012

WELL NO. MW-14B Hospital
SAMPLED BY: Frane Sosic / AW

WELL INFORMATION	
TOP OF CASING ELEV.	(ft.)
WELL DIAMETER 2"	(inches)
DEPTH OF WELL 167.00	(ft.)
DEPTH TO WATER 92.45	(ft.)
HEIGHT OF WATER COLUMN 74.55	(ft.)
CASING VOLUME* Hgt. x 0.163 Gal./Ft. = 12.15165	(gal)
PURGE VOLUME x 3 = 36.45495	(gal)
PRODUCT THICKNESS	(ft.)

WELL CONDITION:

GOOD

WEATHER CONDITIONS:

Clear/sunny/warm (~82°F)

PURGING AND SAMPLING EQUIPMENT:

YSI 556

Interface probe (200')

PURGE DATA											
Time:	Purge Volume (Gal.)	Flow Rate (Gal./Min.)	pH	Sp.Cond. $\mu S/cm$	Turbidity NTUs	DO mg/L	Temperature °C	TDS	ORP mV	Color	Odor
910	5	VAC TRUCK	8.23	1.583	/	8.03	22.78	/	-78.8	Cloudy	Mild
918	10	↓	8.20	1.588	/	2.81	21.92	/	-100.0	Cloudy	Mild
926	15	↓	8.21	1.586	/	2.54	21.87	/	-91.3	Cloudy	Mild

Sample No.	Sample Time	Packing	Analyses	Container	Quantity	Preservative	NOTES:
1	8:20:12	ice	8260B - VOCs + Oxys	VOAs	3	HCL	LL-14B-082012-01 @ 10:36
1	10:36	ice	8015M - TPH-g	VOAs	3	HCL	

ADDITIONAL INFORMATION:

TOC = Top of well casing

*Casing Volume = $r^2h(ft) \times 7.48 \text{ gal./ft.}^3$

4" well = 0.66 Gal./Foot

2" well = 0.163 Gal./Foot

Page 2 of 2

PROJECT NO.: 1003-001-300

DATE: 8.20.20/2

WELL NO. 14-B

SAMPLED BY: Frane Sosic / AW

[illegible]

GROUNDWATER SAMPLING LOG

PAGE 1 OF 2

PROJECT NAME: CENCO
PROJECT NO.: 1003-001-300
DATE: 8-20-12 3Q2012

WELL NO. MW-14C Hospital
SAMPLED BY: Frane Sasic

WELL INFORMATION	
TOP OF CASING ELEV.	(ft.)
WELL DIAMETER	(inches)
DEPTH OF WELL	195.00 (ft.)
DEPTH TO WATER	92.62 (ft.)
HEIGHT OF WATER COLUMN	102.38 (ft.)
CASING VOLUME*	Hgt. x 0.163 Gal./Ft. = 16.68794 (gal)
PURGE VOLUME	x 3 = 50.06382 (gal)
PRODUCT THICKNESS	(ft.)

WELL CONDITION:

GOOD

WEATHER CONDITIONS:

Clear / sunny / warm (~ 85°F)

PURGING AND SAMPLING EQUIPMENT:

YSI 556

Interface probe (200')

PURGE DATA											
Time:	Purge Volume (Gal.)	Flow Rate (Gal./Min.)	pH	Sp.Cond. (µS/cm)	Turbidity NTUs	DO mg/L	Temperature (F/°C)	TDS	ORP mV	Color	Odor
1046	5	VAC TRUCK	8.20	1.691	/	5.75	23.51	/	-49.4	Cloudy	Slight
1053	10		8.22	1.698	/	3.52	23.13	/	-94.8	Clear	Slight
1056	15	↓	8.20	1.698	/	2.93	23.35	/	-82.7	Clear	Slight

Sample No.	Sample Time	Packing	Analyses	Container	Quantity	Preservative	NOTES:
1	8-20-12	ice	8260B - VOCs + Oxys	VOAs	3	HCL	LL-14C-082012-01 @ 1230
1	12:30	ice	8015M - TPH-g	VOAs	3	HCL	

ADDITIONAL INFORMATION:

TOC = Top of well casing

*Casing Volume = $r^2 h (\text{ft}) \times 7.48 \text{ gal./ft.}^3$

4" well = 0.66 Gal./Foot

2" well = 0.163 Gal./Foot

Page 2 of 2

PROJECT NO.: 1003-001-300

DATE: 8.20.2012

WELL NO. 14-C

SAMPLED BY: Frane Sosic

[illegible]

GROUNDWATER SAMPLING LOG

PROJECT NAME: CENCO
 PROJECT NO.: 1003-001-300
 DATE: 8.21.2012 3Q2012

WELL NO. MW-15A Hospital
 SAMPLED BY: Frane Sosic / AW

Well Notes: May contain FPPH

WELL CONDITION: GOOD

WEATHER CONDITIONS: Clear/sunny/warm (~83°F)

PURGING AND SAMPLING EQUIPMENT:
 YSI 556
 Interface probe (200')

WELL INFORMATION	
TOP OF CASING ELEV.	(ft.)
WELL DIAMETER 2"	(inches)
DEPTH OF WELL 125.00	(ft.)
DEPTH TO WATER	(ft.)
HEIGHT OF WATER COLUMN	(ft.)
CASING VOLUME* Hgt. x 0.163 Gal./Ft. =	(gal)
PURGE VOLUME x 3 =	(gal)
PRODUCT THICKNESS	(ft.)

PURGE DATA											
Time:	Purge Volume (Gal.)	Flow Rate (Gal./Min.)	pH	Sp.Cond. (s/cm)	Turbidity NTUs	DO mg/L	Temperature (F/C)	TDS	ORP	Color	Odor
/	/	/	/	/	/	/	/	/	/	/	/
/	/	/	/	/	/	/	/	/	/	/	/
/	/	/	/	/	/	/	/	/	/	/	/

Sample No.	Sample Time	Packing	Analyses	Container	Quantity	Preservative	NOTES: Free product skim down purge NO GW PARAMETERS TAKEN DUE TO FPPH
1	8.21.12	ice	8260B - VOCs + Oxys	VOAs	3	HCL	Approx. 7 gallons of FPPH removed from well Approx. 35 gallons of GW removed subsequently LL-15A-082112-01 @ 11:30
1	11:30	ice	8015M - TPH-g	VOAs	3	HCL	

ADDITIONAL INFORMATION:

TOC = Top of well casing

*Casing Volume = $r^2h(\text{ft}) \times 7.48 \text{ gal/ft.}^3$

4" well = 0.66 Gal./Foot

2" well = 0.163 Gal./Foot

GROUNDWATER SAMPLING LOG

PROJECT NAME: CENCO
PROJECT NO.: 1003-001-300
DATE: 8-20-2012 3Q2012

WELL NO. MW-15B Hospital
SAMPLED BY: Frane Sosic / AW

WELL INFORMATION	
TOP OF CASING ELEV.	(ft.)
WELL DIAMETER 2"	(inches)
DEPTH OF WELL 156.00	(ft.)
DEPTH TO WATER 109.99	(ft.)
HEIGHT OF WATER COLUMN 46.01	(ft.)
CASING VOLUME* Hgt. x 0.163 Gal./Ft. = 7.49963	(gal)
PURGE VOLUME x 3 = 22.49889	(gal)
PRODUCT THICKNESS	(ft.)

WELL CONDITION:

GOOD

WEATHER CONDITIONS:

Clear/sunny/warm (~85°F)

PURGING AND SAMPLING EQUIPMENT:

YSI 556

Interface probe (200')

1243	5	VACTRUCK	8.16	2.127	PURGE	DATA 4.90	25.20	—	32.2	Light gray	Mild
Time:	Purge Volume (Gal.)	Flow Rate (Gal./Min.)	pH	Sp.Cond. (s/cm)	Turbidity NTUs	DO mg/L	Temperature (F/C)	TDS	ORP	Color	Odor
1250	10		8.15	2.099	/	4.70	24.61	/	29.2	Clear	Mild
1302	15		8.15	2.064	/	3.51	25.67	/	26.0	Clear	Mild
1313	20		8.12	2.053	/	3.73	25.73	/	34.4	Cloudy	Mild
1326	25		8.10	2.067	/	5.08	26.38	/	64.6	Clear	Mild
Sample No.	Sample Time	Packing	Analyses	Container	Quantity	Preservative	NOTES:				
1	8-20-12	ice	8260B - VOCs + Oxys	VOAs	3	HCL	LL-15B-082012-01 @ 1400				
1	1400	ice	8015M - TPH-g	VOAs	3	HCL					

ADDITIONAL INFORMATION:

TOC = Top of well casing

*Casing Volume = $r^2h(\text{ft}) \times 7.48 \text{ gal/ft.}^3$

4" well = 0.66 Gal./Foot

2" well = 0.163 Gal./Foot

GROUNDWATER SAMPLING LOG

PAGE 1 OF 2

PROJECT NAME: CENCO
PROJECT NO.: 1003-001-300
DATE: 8.21.2012 3Q2012

WELL NO. MW-15C Hospital
SAMPLED BY: Frane Sosic / AW

WELL INFORMATION	
TOP OF CASING ELEV.	(ft.)
WELL DIAMETER	(inches)
DEPTH OF WELL	200.00 (ft.)
DEPTH TO WATER	110.58 (ft.)
HEIGHT OF WATER COLUMN	89.42 (ft.)
CASING VOLUME*	Hgt. x 0.163 Gal./Ft. = 14.57546 (gal)
PURGE VOLUME	x 3 = 43.72638 (gal)
PRODUCT THICKNESS	(ft.)

WELL CONDITION:

GOOD

WEATHER CONDITIONS:

Clear/sunny/breezy (~85°F)

PURGING AND SAMPLING EQUIPMENT:

YSI 556

Interface probe (200')

PURGE DATA											
Time:	Purge Volume (Gal.)	Flow Rate (Gal./Min.)	pH	Sp.Cond. μS/cm	Turbidity NTUs	DO mg/L	Temperature (F/°C)	TDS	ORP	Color	Odor
1212	5	VAC TRUCK	8.23	1.706	/	8.97	26.72	/	181.7	Light gray	Mild
1233	10	↓	8.24	1.675	/	2.44	27.31	/	149.1	Light gray	Mild
1254	15	↓	8.26	1.663	/	2.68	28.07	/	142.8	Only	Mild

Sample No.	Sample Time	Packing	Analyses	Container	Quantity	Preservative	NOTES:
1	8.21.12	ice	8260B - VOCs + Oxys	VOAs	3	HCL	LL-15C-082112-01 @ 1613
1	1613	ice	8015M - TPH-g	VOAs	3	HCL	

ADDITIONAL INFORMATION:

TOC = Top of well casing

*Casing Volume = $r^2h(ft) \times 7.48 \text{ gal/ft.}^3$

4" well = 0.66 Gal./Foot

2" well = 0.163 Gal./Foot

Page 2 of 2

PROJECT NO.: 1003-001-300

DATE: 8.21.2012

WELL NO. 15-C

SAMPLED BY: Frane Sosic

[illegible]

GROUNDWATER SAMPLING LOG

PROJECT NAME: CENCO
 PROJECT NO.: 1003-001-300
 DATE: 8.22.2012 3Q2012

WELL NO. MW-16A Walker
 SAMPLED BY: Frane Susic

WELL NOTES:
 WELL CONDITION:

GOOD

WEATHER CONDITIONS:

Scattered clouds + mostly sunny (~80°F)

PURGING AND SAMPLING EQUIPMENT:

YSI 556

Interface probe (200')

WELL INFORMATION	
TOP OF CASING ELEV.	(ft.)
WELL DIAMETER 2"	(inches)
DEPTH OF WELL 25.00	(ft.)
DEPTH TO WATER 12.11	(ft.)
HEIGHT OF WATER COLUMN 12.89	(ft.)
CASING VOLUME* Hgt. x 0.163 Gal./Ft. = 2.10107	(gal)
PURGE VOLUME x 3 = 6.30321	(gal)
PRODUCT THICKNESS	(ft.)

PURGE DATA											
Time:	Purge Volume (Gal.)	Flow Rate (Gal./Min.)	pH	Sp.Cond. <i>mS</i> (S/cm)	Turbidity NTUs	DO mg/L	Temperature (F/C)	TDS	ORP <i>mV</i>	Color	Odor
10:23	5	VAC TRUCK	7.77	2.425	—	2.47	21.22	—	-77.5	Grey	Mild

Sample No.	Sample Time	Packing	Analyses	Container	Quantity	Preservative	NOTES:
1	8.22.12	ice	8260B - VOCs + Oxys	VOAs	3	HCL	LL-16A-082212-01 @ 10:37
1	10:37	ice	8015M - TPH-g	VOAs	3	HCL	

ADDITIONAL INFORMATION:

TOC = Top of well casing

*Casing Volume = $r^2h(ft) \times 7.48 \text{ gal./ft.}^3$

4" well = 0.66 Gal./Foot

2" well = 0.163 Gal./Foot

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GROUNDWATER SAMPLING LOG

PROJECT NAME: CENCO
PROJECT NO.: 1003-001-300
DATE: 8.22.2012 3Q2012

WELL NO. MW-16B Walker
SAMPLED BY: Frane Susic

WELL NOTES:
WELL CONDITION: GOOD

WEATHER CONDITIONS: Mostly sunny & warm (~85°F)

PURGING AND SAMPLING EQUIPMENT:
YSI 556
Interface probe (200')

WELL INFORMATION	
TOP OF CASING ELEV.	(ft.)
WELL DIAMETER 2"	(inches)
DEPTH OF WELL 160.00	(ft.)
DEPTH TO WATER 116.76	(ft.)
HEIGHT OF WATER COLUMN 43.24	(ft.)
CASING VOLUME* Hgt. x 0.163 Gal./Ft. = 7.04812	(gal)
PURGE VOLUME x 3 = 21.14436	(gal)
PRODUCT THICKNESS	(ft.)

1108	5	WAC TRUCK	8.43	2.239	PURGE DATA	2.82	24.02	—	—	166.0	Light gray	Mild
Time:	Purge Volume (Gal.)	Flow Rate (Gal./Min.)	pH	Sp.Cond. μS/cm	Turbidity NTUs	DO mg/L	Temperature (F/°C)	TDS	ORP mV	Color	Odor	
1117	10	—	8.61	2.145	—	1.95	23.92	—	—	189.3	Cloudy	Mild
1128	15	—	8.62	2.110	—	2.83	24.00	—	—	179.4	Cloudy	Mild
1138	20	—	8.62	2.092	—	2.90	24.05	—	—	200.0	Cloudy	Mild

Sample No.	Sample Time	Packing	Analyses	Container	Quantity	Preservative	NOTES:
1	8.22.12	ice	8260B - VOCs + Oxys	VOAs	3	HCL	LL-16B-082212-01 @ 1200
1	1200	ice	8015M - TPH-g	VOAs	3	HCL	

ADDITIONAL INFORMATION:

TOC = Top of well casing

*Casing Volume = $r^2h(\text{ft}) \times 7.48 \text{ gal/ft.}^3$

4" well = 0.66 Gal./Foot

2" well = 0.163 Gal./Foot

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GROUNDWATER SAMPLING LOG

PROJECT NAME: CENCO
 PROJECT NO.: 1003-001-300
 DATE: 8-22-2012 3Q2012

WELL NO. MW-16C Walker
 SAMPLED BY: Frane Sasic

WELL NOTES:
 WELL CONDITION:

GOOD

WEATHER CONDITIONS:

Clear/sunny/light breeze (~82°F)

PURGING AND SAMPLING EQUIPMENT:

YSI 556

Interface probe (200')

WELL INFORMATION	
TOP OF CASING ELEV.	(ft.)
WELL DIAMETER	2" (inches)
DEPTH OF WELL	196.00 (ft.)
DEPTH TO WATER	116.52 (ft.)
HEIGHT OF WATER COLUMN	79.48 (ft.)
CASING VOLUME*	Hgt. x 0.163 Gal./Ft. = 12.95524 (gal)
PURGE VOLUME	x 3 = 38.86572 (gal)
PRODUCT THICKNESS	(ft.)

PURGE DATA											
Time:	Purge Volume (Gal.)	Flow Rate (Gal./Min.)	pH	Sp.Cond. µS/cm	Turbidity NTUs	DO mg/L	Temperature (F/C)	TDS	ORP mV	Color	Odor
1235	5	VAC TRUCK	8.50	1.523	/	4.36	26.19	/	-170.8	Cloudy	None
1249	10	↓	8.50	1.525	/	1.38	25.43	/	-176.4	Cloudy	None
1259	15	↓	8.39	1.767	/	1.96	22.67	/	-163.6	Cloudy	None

Sample No.	Sample Time	Packing	Analyses	Container	Quantity	Preservative	NOTES:
1	8-22-12	ice	8260B - VOCs + Oxys	VOAs	3	HCL	LL-16C-082212-01 @ 1545
1	1545	ice	8015M - TPH-g	VOAs	3	HCL	

ADDITIONAL INFORMATION:

TOC = Top of well casing

*Casing Volume = $r^2h(\text{ft}) \times 7.48 \text{ gal./ft.}^3$

4" well = 0.66 Gal./Foot

2" well = 0.163 Gal./Foot

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Page

PROJECT NAME: CENCO

PROJECT NO.: 1003-001-300

DATE: 8.22.2012

WELL NO.

16-C

SAMPLED BY: Frane Sosic

[illegible]

GROUNDWATER SAMPLING LOG

PROJECT NAME: CENCO
 PROJECT NO.: 1003-001-300
 DATE: 8-23-12 3Q2012

WELL NO. W-17A Site
 SAMPLED BY: Frane Sasic

WELL INFORMATION		
TOP OF CASING ELEV.		(ft.)
WELL DIAMETER	2"	(inches)
DEPTH OF WELL	125.00	(ft.)
DEPTH TO WATER	95.49	(ft.)
HEIGHT OF WATER COLUMN	29.51	(ft.)
CASING VOLUME*	Hgt. x 0.163 Gal./Ft. = 4.81013	4.81013 (gal)
PURGE VOLUME	x 3 = 14.43037	14.43037 (gal)
PRODUCT THICKNESS		(ft.)

WELL CONDITION:
 OK

WEATHER CONDITIONS:
 Overcast + humid (~80°F) w/ light breeze

PURGING AND SAMPLING EQUIPMENT:
 YSI 556
 Interface probe (200')

PURGE DATA											
Time:	Purge Volume (Gal.)	Flow Rate (Gal./Min.)	pH	Sp.Cond. µS/cm	Turbidity NTUs	DO mg/L	Temperature (F/C)	TDS	ORP mV	Color	Odor
1045	5	NAC TRUCK	8.21	2.204	/	2.33	23.70	/	33.4	Cloudy	Mild
1055	10	I	8.17	2.191	/	1.88	22.86	/	-11.9	Clear	High
1110	15	I	8.12	2.179	/	2.36	22.71	/	20.5	Clear	High

Sample No.	Sample Time	Packing	Analyses	Container	Quantity	Preservative	NOTES: Took over 1 hour for water to begin purging Singer may be cracked/damaged LL-17A 082312-01 @ 1132
1	8-23-12	ice	8260B - VOCs + OxyS	VOAs	3	HCL	
1	11:32	ice	8015M - TPH-g	VOAs	3	HCL	

ADDITIONAL INFORMATION:

TOC = Top of well casing

*Casing Volume = $r^2h(\text{ft}) \times 7.48 \text{ gal/ft.}^3$

4" well = 0.66 Gal./Foot

2" well = 0.163 Gal./Foot

GROUNDWATER SAMPLING LOG

PAGE 1 OF 2

PROJECT NAME: CENCO
 PROJECT NO.: 1003-001-300
 DATE: 8-23-12 3Q2012

WELL NO. **W-17B** Site
 SAMPLED BY: Frane Sosis

WELL INFORMATION	
TOP OF CASING ELEV.	(ft.)
WELL DIAMETER	(inches)
DEPTH OF WELL	170.00 (ft.)
DEPTH TO WATER	105.78 (ft.)
HEIGHT OF WATER COLUMN	64.22 (ft.)
CASING VOLUME*	Hgt. x 0.163 Gal./Ft. = 10.46786 (gal)
PURGE VOLUME	x 3 = 31.40358 (gal)
PRODUCT THICKNESS	(ft.)

WELL CONDITION:
 OK

WEATHER CONDITIONS:
 Overcast + humid (~80°F)

PURGING AND SAMPLING EQUIPMENT:
 YSI 556
 Interface probe (200')

PURGE DATA											
Time:	Purge Volume (Gal.)	Flow Rate (Gal./Min.)	pH	Sp.Cond. µS/cm	Turbidity NTUs	DO mg/L	Temperature (F/C)	TDS	ORP mV	Color	Odor
1148	5	VAC TRUCK	8.25	1.629	/	2.92	24.80	/	-113.0	Cloudy	bleed
1156	10	↓	8.29	1.576	/	1.93	24.68	/	-130.5	Cloudy	bleed
1203	15	↓	8.26	1.604	/	1.95	25.60	/	-151.2	Clear	bleed

Sample No.	Sample Time	Packing	Analyses	Container	Quantity	Preservative	NOTES:
1	8-23-12	ice	8260B - VOCs + Oxys	VOAs	3	HCL	LL-17B_082312_01 @ 1255
1	12:55	ice	8015M - TPH-g	VOAs	3	HCL	

ADDITIONAL INFORMATION:

TOC = Top of well casing

*Casing Volume = $r^2h(\text{ft}) \times 7.48 \text{ gal/ft.}^3$

4" well = 0.66 Gal./Foot

2" well = 0.163 Gal./Foot

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Page 2 of 2

DATE: 8.23.2012

M-R

SAMPLED BY: Frane Sosic

[illegible]

GROUNDWATER SAMPLING LOG

PROJECT NAME: CENCO
 PROJECT NO.: 1003-001-300
 DATE: 8.23.12 3Q2012

WELL NO. W-17C Site
 SAMPLED BY: Frane Sosic

WELL INFORMATION	
TOP OF CASING ELEV.	(ft.)
WELL DIAMETER 2"	(inches)
DEPTH OF WELL 200.00	(ft.)
DEPTH TO WATER 105.87	(ft.)
HEIGHT OF WATER COLUMN 94.13	(ft.)
CASING VOLUME* Hgt. x 0.163 Gal./Ft. = 15.34319	(gal)
PURGE VOLUME x 3 = 46.02757	(gal)
PRODUCT THICKNESS	(ft.)

WELL CONDITION:

OK

WEATHER CONDITIONS:

Clear/sunny/humid (~86°F)

PURGING AND SAMPLING EQUIPMENT:

YSI 556

Interface probe (200')

PURGE DATA											
Time:	Purge Volume (Gal.)	Flow Rate (Gal./Min.)	pH	Sp.Cond. $\mu\text{S/cm}$	Turbidity NTUs	DO mg/L	Temperature (F/C)	TDS	ORP	Color	Odor
1317	5	VAC TRUCK	8.46	1.355	/	2.45	25.83	/	-179.3	Gray	Strong
1322	10	↓	8.44	1.377	/	1.66	25.08	/	-151.0	Light gray	Strong
1327	15	↓	8.45	1.342	/	2.22	24.38	/	-180.6	Cloudy	Strong

Sample No.	Sample Time	Packing	Analyses	Container	Quantity	Preservative	NOTES:
1	8.23.12	ice	8260B - VOCs + OxyS	VOAs	3	HCL	LL 17C_082312_01 @ 15:00
1	1500	ice	8015M - TPH-g	VOAs	3	HCL	

ADDITIONAL INFORMATION:

TOC = Top of well casing

*Casing Volume = $r^2h(\text{ft}) \times 7.48 \text{ gal/ft.}^3$

4" well = 0.66 Gal./Foot

2" well = 0.163 Gal./Foot

Page 2 of 2

PROJECT NO.: 1003-001-300

DATE: 8.23.2012

17-C

SAMPLED BY: Frane Sosic

[illegible]

GROUNDWATER SAMPLING LOG

PROJECT NAME: CENCO
 PROJECT NO.: 1003-001-300
 DATE: 8.27.12 3Q2012

WELL NO. MW-104A Site
 SAMPLED BY: Frane Susic

WELL INFORMATION	
TOP OF CASING ELEV.	(ft.)
WELL DIAMETER 4"	(inches)
DEPTH OF WELL 100.00	(ft.)
DEPTH TO WATER 93.00	(ft.)
HEIGHT OF WATER COLUMN 7.00	(ft.)
CASING VOLUME* Hgt. x 0.163 Gal./Ft. =	(gal)
PURGE VOLUME x 3 =	(gal)
PRODUCT THICKNESS	(ft.)

WELL CONDITION: OK

WEATHER CONDITIONS: Clear/sunny/hot (~95°F)

PURGING AND SAMPLING EQUIPMENT:
 YSI 556
 Interface probe (200')

PURGE DATA											
Time:	Purge Volume (Gal.)	Flow Rate (Gal./Min.)	pH	Sp.Cond. $\mu S/cm$	Turbidity NTUs	DO mg/L	Temperature (F/C)	TDS	DRP μV	Color	Odor
1509		VAC TRUCK	7.69	2.599		1.96	26.49		51.9	Cloudy	Strong

Sample No.	Sample Time	Packing	Analyses	Container	Quantity	Preservative	NOTES:
1	8.27.12	ice	8260B - VOCs + Oxys	VOAs	3	HCL	MW-104A went dry approx. 6-7 gallons into purge. Will allow it to recharge prior to collecting sample.
1	1553	ice	8015M - TPH-g	VOAs	3	HCL	
							LL-104A-082712-01 @ 15:53

ADDITIONAL INFORMATION:

TOC = Top of well casing

*Casing Volume = $r^2h(ft) \times 7.48 \text{ gal./ft.}^3$

4" well = 0.66 Gal./Foot

2" well = 0.163 Gal./Foot

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GROUNDWATER SAMPLING LOG

PROJECT NAME: CENCO
PROJECT NO.: 1003-001-300
DATE: 8-24-12 3Q2012

WELL NO. MW-106A Bloomfield
SAMPLED BY: Frane Sosic

WELL INFORMATION	
TOP OF CASING ELEV.	(ft.)
WELL DIAMETER 4"	(inches)
DEPTH OF WELL 110.00	(ft.)
DEPTH TO WATER 104.20	(ft.)
HEIGHT OF WATER COLUMN 5.80	(ft.)
CASING VOLUME* Hgt. x 0.163 Gal./Ft. =	(gal)
PURGE VOLUME x 3 =	(gal)
PRODUCT THICKNESS	(ft.)

WELL NOTES:
WELL CONDITION: OK

WEATHER CONDITIONS:
Clear/sunny/breezy (~79°F)

PURGING AND SAMPLING EQUIPMENT:
YSI 556
Interface probe (200')

PURGE DATA											
Time:	Purge Volume (Gal.)	Flow Rate (Gal./Min.)	pH	Sp.Cond. (s/cm)	Turbidity NTUs	DO mg/L	Temperature (F / C)	TDS	ORP mV	Color	Odor
1410	DRY	~ 3-4	gallons								

Sample No.	Sample Time	Packing	Analyses	Container	Quantity	Preservative	NOTES:
1	8-24-12	ice	8260B - VOCs + Oxys	VOAs	3	HCL	14:07
1	1630	ice	8015M - TPH-g	VOAs	3	HCL	106A went dry @ approx. 3-4 gallons Will allow to recharge prior to sampling
							LL-106A-082412-01 @ 1630

ADDITIONAL INFORMATION:

TOC = Top of well casing

*Casing Volume = $r^2h(\text{ft}) \times 7.48 \text{ gal./ft.}^3$

4" well = 0.66 Gal./Foot

2" well = 0.163 Gal./Foot

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GROUNDWATER SAMPLING LOG

PAGE 1 of 2

PROJECT NAME: CENCO
PROJECT NO.: 1003-001-300
DATE: 8-24-12 3Q2012

WELL NO. MW-107A Bloomfield
SAMPLED BY: Frane Sosic

WELL INFORMATION	
TOP OF CASING ELEV.	(ft.)
WELL DIAMETER	(inches)
DEPTH OF WELL	113.00 (ft.)
DEPTH TO WATER	104.07 (ft.)
HEIGHT OF WATER COLUMN	(ft.)
CASING VOLUME*	Hgt. x 0.163 Gal./Ft. = (gal)
PURGE VOLUME	x 3 = (gal)
PRODUCT THICKNESS	(ft.)

WELL NOTES:
WELL CONDITION: GOOD

WEATHER CONDITIONS: Clear/sunny/breezy (82°F)

PURGING AND SAMPLING EQUIPMENT:
YSI 556
Interface probe (200')

PURGE DATA											
Time:	Purge Volume (Gal.)	Flow Rate (Gal./Min.)	pH	Sp.Cond. (S/cm)	Turbidity NTUs	DO mg/L	Temperature (F/C)	TDS	ORP mV	Color	Odor
1435	5	1/4" TRUCK	8.18	1.800	/	2.05	25.69	/	-220.7	Gray	Strong!
1438	10	↓	8.12	1.791	/	1.96	25.18	/	-226.4	Trans. gray	Strong!
1441	15	↓	8.17	1.789	/	2.36	24.81	/	-225.6	Trans. gray	Strong!

Sample No.	Sample Time	Packing	Analyses	Container	Quantity	Preservative	NOTES:
1	8-24-12	ice	8260B - VOCs + Oxys	VOAs	3	HCL	Air line used for purge LL-107A-082412-01 @ 1523
1	1523	ice	8015M - TPH-g	VOAs	3	HCL	

ADDITIONAL INFORMATION:

TOC = Top of well casing

*Casing Volume = $r^2h(ft) \times 7.48 \text{ gal./ft.}^3$

4" well = 0.66 Gal./Foot

2" well = 0.163 Gal./Foot

Murex Environmental Inc.

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PROJECT NO.: 1003-001-300

DATE: 8.24.2012

WELL NO. 107A

SAMPLED BY: Frane Sosic

[illegible]

GROUNDWATER SAMPLING LOG

PROJECT NAME: CENCO
 PROJECT NO.: 1003-001-300
 DATE: 3Q2012 8-30-2012

WELL NO. MW-503B Lakeland
 SAMPLED BY: Frane Sosic

WELL NOTES:

WELL CONDITION:

POOR

WEATHER CONDITIONS:

Clear/sunny (~86°F)

PURGING AND SAMPLING EQUIPMENT:

YSI 556

Interface probe (200')

WELL INFORMATION	
TOP OF CASING ELEV.	(ft.)
WELL DIAMETER 4"	(inches)
DEPTH OF WELL 112.00	(ft.)
DEPTH TO WATER 99.57	(ft.)
HEIGHT OF WATER COLUMN 12.43	(ft.)
CASING VOLUME* Hgt. x 0.66 Gal./Ft. = 8.2038	(gal)
PURGE VOLUME x 3 =	(gal)
PRODUCT THICKNESS	(ft.)

1115	5		8.22	1.743	PURGE DATA 2.30		26.76	—	97.5	Clear	Mild
Time:	Purge Volume (Gal.)	Flow Rate (Gal./Min.)	pH	Sp.Cond. $\mu S/cm$	Turbidity NTUs	DO mg/L	Temperature (F/C)	TDS	ORP mV	Color	Odor
1120	10	HOT TRUCK	8.16	1.714	/	2.44	26.36	/	33.0	Clear	Mild
1126	15	↓	8.14	1.695	/	2.52	26.03	/	4.5	Clear	Mild
1134	20		8.08	1.689	/	2.32	25.91	/	-22.1	Cloudy	Mild
1143	25	↓	8.05	1.687	—	2.50	25.87	—	-13.0	Cloudy	Mild
Sample No.	Sample Time	Packing	Analyses	Container	Quantity	Preservative	NOTES:				
1	8-30-12	ice	8260B - VOCs + Oxys	VOAs	3	HCL	LL-503B-083012-01 @ 1200				
1	1200	ice	8015M - TPH-g	VOAs	3	HCL					

ADDITIONAL INFORMATION:

TOC = Top of well casing

*Casing Volume = $r^2h(ft) \times 7.48 \text{ gal./ft.}^3$

4" well = 0.66 Gal./Foot

2" well = 0.163 Gal./Foot

GROUNDWATER SAMPLING LOG

PROJECT NAME: CENCO
 PROJECT NO.: 1003-001-300
 DATE: 3Q2012 8.31.2012

WELL NO. MW-701 ~~H10-001-001~~
 SAMPLED BY: Frane Sosic

Well Notes: _____

WELL CONDITION: _____

GREAT

WEATHER CONDITIONS: _____

Clear/sunny (~85°F)

PURGING AND SAMPLING EQUIPMENT: _____

YSI 556

Interface probe (200')

WELL INFORMATION	
TOP OF CASING ELEV.	(ft.)
WELL DIAMETER 4"	(inches)
DEPTH OF WELL 130.00	(ft.)
DEPTH TO WATER 97.71	(ft.)
HEIGHT OF WATER COLUMN	(ft.)
CASING VOLUME* Hgt. x 0.66 Gal./Ft. =	(gal)
PURGE VOLUME x 3 =	(gal)
PRODUCT THICKNESS	(ft.)

PURGE DATA											
Time:	Purge Volume (Gal.)	Flow Rate (Gal./Min.)	pH	Sp.Cond. $\mu S/cm$	Turbidity NTUs	DO mg/L	Temperature (F/C)	TDS	ORP mV	Color	Odor
845	5	VAC TRUCK	8.07	2.001	/	8.23	23.93	/	56.5	Gray	Slight
850	10	↓	8.05	1.976	/	6.86	23.70	/	61.3	Light gray	Slight
855	15	↓	8.11	1.904	/	4.72	23.54	/	60.6	Cloudy	Slight

Sample No.	Sample Time	Packing	Analyses	Container	Quantity	Preservative	NOTES:
1	8.31.12	ice	8260B - VOCs + Oxys	VOAs	3	HCL	LL-701-083112-01 @ 9:36 LL-701-083112-02 @ 9:45
1	936	ice	8015M - TPH-g	VOAs	3	HCL	
2	8.31.12	-11-	8260B	VOAs	3	HCL	
2	945	-11-	8015M	VOAs	3	HCL	

ADDITIONAL INFORMATION:

TOC = Top of well casing

*Casing Volume = $r^2h(ft) \times 7.48 \text{ gal./ft.}^3$

4" well = 0.66 Gal./Foot

2" well = 0.163 Gal./Foot

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PROJECT NO.: 1003-001-300

DATE: 8.31.2012

WELL NO.

SAMPLED BY: Frane Sosic

[illegible]

GROUNDWATER SAMPLING LOG

PROJECT NAME: CENCO
 PROJECT NO.: 1003-001-300
 DATE: 3Q2012 8.31.2012

WELL NO. MW-702 ~~Hospital~~
 SAMPLED BY: Frane Sasic

Well Notes: Strong H₂S / CH₄ / VOC vapors

WELL CONDITION:

GOOD

WEATHER CONDITIONS:

Clear/sunny (~90°F)
 breezy

PURGING AND SAMPLING EQUIPMENT:

YSI 556

Interface probe (200')

WELL INFORMATION	
TOP OF CASING ELEV.	(ft.)
WELL DIAMETER 4"	(inches)
DEPTH OF WELL 130.00	(ft.)
DEPTH TO WATER 97.51	(ft.)
HEIGHT OF WATER COLUMN	(ft.)
CASING VOLUME* Hgt. x 0.66 Gal./Ft. =	(gal)
PURGE VOLUME x 3 =	(gal)
PRODUCT THICKNESS	(ft.)

PURGE DATA											
Time:	Purge Volume (Gal.)	Flow Rate (Gal./Min.)	pH	Sp.Cond. (s/cm)	Turbidity NTUs	DO mg/L	Temperature (F/C)	TDS	ORP	Color	Odor
1200	5	VACTRUCK	7.95	2.041	/	4.26	28.08	/	-40.0	Cloudy	Strong
1203	10	↓	7.94	2.045	/	3.41	26.76	/	-60.3	Cloudy	Strong
1206	15	↓	7.93	2.042	/	3.26	26.65	/	-99.4	Cloudy	Strong

Sample No.	Sample Time	Packing	Analyses	Container	Quantity	Preservative	NOTES: Vent well for 4+ hours prior to sampling ✓ effective for fumes
1	8.31.12	ice	8260B - VOCs + Oxys	VOAs	3	HCL	LL-702-083112-01 @ 1240
1	1240	ice	8015M - TPH-g	VOAs	3	HCL	
2	8.31.12	-11-	8260B	VOAs	3	HCL	LL-702-083112-02 @ 1300
2	1300	-11-	8015M	VOAs	3	HCL	

ADDITIONAL INFORMATION:

TOC = Top of well casing

*Casing Volume = $r^2h(\text{ft}) \times 7.48 \text{ gal/ft.}^3$

4" well = 0.66 Gal./Foot

2" well = 0.163 Gal./Foot

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PROJECT NO.: 1003-001-300

DATE: 8.31.2012

WELL NO. MW-702

SAMPLED BY: Frane Sosic

[illegible]

GROUNDWATER SAMPLING LOG

PROJECT NAME: CENCO
 PROJECT NO.: 1003-001-300
 DATE: 3Q2012 8.31.2012

WELL NO. MW-703 ~~biopoint~~
 SAMPLED BY: Frane Sosic

Well Notes: New 4" well

WELL CONDITION:

GREAT

WEATHER CONDITIONS:

Clear/sunny/breezy (~90°F)

PURGING AND SAMPLING EQUIPMENT:

YSI 556

Interface probe (200')

WELL INFORMATION	
TOP OF CASING ELEV.	(ft.)
WELL DIAMETER	(inches)
DEPTH OF WELL	130.00 (ft.)
DEPTH TO WATER	99.13 (ft.)
HEIGHT OF WATER COLUMN	(ft.)
CASING VOLUME*	Hgt. x 0.66 Gal./Ft. = (gal)
PURGE VOLUME	x 3 = (gal)
PRODUCT THICKNESS	(ft.)

PURGE DATA											
Time:	Purge Volume (Gal.)	Flow Rate (Gal./Min.)	pH	Sp.Cond. (μ S/cm)	Turbidity NTUs	DO mg/L	Temperature (F/C)	TDS	ORP	Color	Odor
1316	5		8.05	1.953	/	4.09	26.49	/	32.9	Light grey	Strong
1318	10		7.92	1.934	/	3.45	25.06	/	-0.4	Light grey	Strong
1320	15		7.86	1.941	/	3.73	26.18	/	10.5	Light grey	Strong

Sample No.	Sample Time	Packing	Analyses	Container	Quantity	Preservative	NOTES:
1	8.31.12	ice	8260B - VOCs + Oxys	VOAs	3	HCL	
1	1400	ice	8015M - TPH-g	VOAs	3	HCL	
2	8.31.12						
2	1432						

ADDITIONAL INFORMATION:

TOC = Top of well casing

*Casing Volume = $r^2h(\text{ft}) \times 7.48 \text{ gal/ft.}^3$

4" well = 0.66 Gal./Foot

2" well = 0.163 Gal./Foot

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PROJECT NO.: 1003-001-300

DATE: 8.31.202

MW-703

SAMPLED BY: Frane Sosic

[illegible]

GROUNDWATER SAMPLING LOG

PROJECT NAME: CENCO
 PROJECT NO.: 1003-001-300
 DATE: 3Q2012 9.4.2012

WELL NO. MW-704 ~~Hospital~~
 SAMPLED BY: Frane Sosis

Well Notes:

WELL CONDITION:

GREAT

WEATHER CONDITIONS:

Clear/sunny (~77°F)

PURGING AND SAMPLING EQUIPMENT:

YSI 556

Interface probe (200')

WELL INFORMATION	
TOP OF CASING ELEV.	(ft.)
WELL DIAMETER 4"	(inches)
DEPTH OF WELL 130.00	(ft.)
DEPTH TO WATER 100.93	(ft.)
HEIGHT OF WATER COLUMN 29.07	(ft.)
CASING VOLUME* Hgt. x .66 Gal./Ft. = 19.1862	(gal)
PURGE VOLUME x 3 = 57.5586	(gal)
PRODUCT THICKNESS	(ft.)

PURGE DATA											
Time:	Purge Volume (Gal.)	Flow Rate (Gal./Min.)	pH	Sp.Cond. $\mu S/cm$	Turbidity NTUs	DO mg/L	Temperature (F/C)	TDS	ORP mV	Color	Odor
8:13	5	VAC TRUCK	7.91	2.099	/	3.10	25.89	/	-40.2	Gray	Strong
8:45	10	↓	7.89	2.102	/	3.23	25.32	/	-79.7	-11-	-11-
8:48	15	↓	7.87	2.106	/	2.67	24.98	/	-89.2	Cloudy	-11-

Sample No.	Sample Time	Packing	Analyses	Container	Quantity	Preservative	NOTES
1	9.4.12	ice	8260B - VOCs + Oxys	VOAs	3	HCL	Slow purge after ~20 gallons.
1	10:25	ice	8015M - TPH-g	VOAs	3	HCL	Well went dry ~39 gal.
							LL-704-090412-01 @ 10:25

ADDITIONAL INFORMATION:

TOC = Top of well casing

*Casing Volume = $r^2h(ft) \times 7.48 \text{ gal./ft.}^3$

4" well = 0.66 Gal./Foot

2" well = 0.163 Gal./Foot

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PROJECT NO.: 1003-001-300

DATE: 9.4.12

704

SAMPLED BY: Frane Sosic

[illegible]

GROUNDWATER SAMPLING LOG

PROJECT NAME: CENCO
 PROJECT NO.: 1003-001-300
 DATE: 3Q2012 9.4.2012

WELL NO. MW-705 ~~Hospital~~
 SAMPLED BY: Frane Sasic

Well Notes: **Strong H2S / LEL / VOC vapors**

WELL CONDITION:

GREAT

WEATHER CONDITIONS:

Clear/sunny/hot (~95°F)

PURGING AND SAMPLING EQUIPMENT:

YSI 556

Interface probe (200')

WELL INFORMATION	
TOP OF CASING ELEV.	(ft.)
WELL DIAMETER 4"	(inches)
DEPTH OF WELL 130.00	(ft.)
DEPTH TO WATER 102.33	(ft.)
HEIGHT OF WATER COLUMN 27.67	(ft.)
CASING VOLUME* Hgt. x .66 Gal./Ft. = 18.2622	(gal)
PURGE VOLUME x 3 = 54.7866	(gal)
PRODUCT THICKNESS	(ft.)

PURGE DATA											
Time:	Purge Volume (Gal.)	Flow Rate (Gal./Min.)	pH	Sp.Cond. $\mu S/cm$	Turbidity NTUs	DO mg/L	Temperature (F/C)	TDS	ORP	Color	Odor
953	5	VAC TRUCK	7.96	1.986	/	4.21	25.89	/	57.5	Gray	Strong
955	10		7.94	1.964	/	3.53	25.74	/	-9.2	Cloudy	-11-
957	15	↓	7.89	1.953	/	7.82	25.14	/	-28.9	Cloudy	-11-

Sample No.	Sample Time	Packing	Analyses	Container	Quantity	Preservative	NOTES: Vent well for 4+ hours prior to sampling ✓
1	9.4.12	ice	8260B - VOCs + Oxys	VOAs	3	HCL	LL-705-090412_01 @ 10:37
1	1037	ice	8015M - TPH-g	VOAs	3	HCL	

ADDITIONAL INFORMATION:

TOC = Top of well casing

*Casing Volume = $r^2h(ft) \times 7.48 \text{ gal./ft.}^3$

4" well = 0.66 Gal./Foot

2" well = 0.163 Gal./Foot

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PROJECT NO.: 1003-001-300

DATE: 9.4.12

WELL NO. 705

SAMPLED BY: Frane Sosic

[illegible]

GROUNDWATER SAMPLING LOG

Page 1 of 2

PROJECT NAME: CENCO
 PROJECT NO.: 1003-001-300
 DATE: 3Q2012 9.4.2012

WELL NO. MW-706 ~~Hospital~~
 SAMPLED BY: Frane Sosis

Well Notes:

WELL CONDITION:

GREAT

WEATHER CONDITIONS:

Clear/sunny/hot (~95°F)

PURGING AND SAMPLING EQUIPMENT:

YSI 556

Interface probe (200')

WELL INFORMATION	
TOP OF CASING ELEV.	(ft.)
WELL DIAMETER 4"	(inches)
DEPTH OF WELL 130.00	(ft.)
DEPTH TO WATER 98.75	(ft.)
HEIGHT OF WATER COLUMN 31.25	(ft.)
CASING VOLUME* Hgt. x .66 Gal./Ft. = 20.625	(gal)
PURGE VOLUME x 3 = 61.875	(gal)
PRODUCT THICKNESS	(ft.)

PURGE DATA											
Time:	Purge Volume (Gal.)	Flow Rate (Gal./Min.)	pH	Sp.Cond. $\mu S/cm$	Turbidity NTUs	DO mg/L	Temperature (F/C)	TDS	ORP mV	Color	Odor
1250	5		8.01	2.062	/	3.40	26.54	/	-54.5	Cloudy	Strong
1252	10		7.94	2.038	/	3.24	26.03	/	-86.7	Cloudy	Strong
1256	15		7.89	2.029	/	2.88	26.36	/	-94.5	Clear	Strong

Sample No.	Sample Time	Packing	Analyses	Container	Quantity	Preservative	NOTES:
1	9.4.12	ice	8260B - VOCs + Oxys	VOAs	3	HCL	Air-line issue/had to be fixed b4 purging LL-706-090412-01 @ 14:05
1	1405	ice	8015M - TPH-g	VOAs	3	HCL	

ADDITIONAL INFORMATION:

TOC = Top of well casing

*Casing Volume = $r^2h(ft) \times 7.48 \text{ gal./ft.}^3$

4" well = 0.66 Gal./Foot

2" well = 0.163 Gal./Foot

Page 2 of 2

PROJECT NO.: 1003-001-300

DATE: 9.4.12

WELL NO.

706

SAMPLED BY: Frane Sosic

[illegible]

GROUNDWATER SAMPLING LOG

PROJECT NAME: CENCO
PROJECT NO.: 1003-001-300
DATE: 3Q2012 9.4.2012

WELL NO. MW-707 ~~Lakeland~~
SAMPLED BY: Frane Sosic

Well Notes:

WELL CONDITION:

GOOD

WEATHER CONDITIONS:

Clear/Sunny/Hot (~95°F)
slight breeze in late PM

PURGING AND SAMPLING EQUIPMENT:

YSI 556

Interface probe (200')

WELL INFORMATION	
TOP OF CASING ELEV.	(ft.)
WELL DIAMETER	(inches)
DEPTH OF WELL	130.00 (ft.)
DEPTH TO WATER	96.40 (ft.)
HEIGHT OF WATER COLUMN	33.60 (ft.)
CASING VOLUME*	Hgt. x .66 Gal./Ft. = 22.176 (gal)
PURGE VOLUME	x 3 = 66.528 (gal)
PRODUCT THICKNESS	(ft.)

PURGE DATA											
Time:	Purge Volume (Gal.)	Flow Rate (Gal./Min.)	pH	Sp.Cond. (s/cm)	Turbidity NTUs	DO mg/L	Temperature (F/C)	TDS	ORP	Color	Odor
1422	5	VAC TRUCK	7.68	1.775	/	4.44	27.27	/	15.4	Gray	Strong
1425	10	↓	7.64	1.773	/	3.49	25.54	/	-59.5	Olive	Strong
1427	15	↓	7.68	1.762	/	3.78	24.92	/	-77.7	Yellowish	Strong

Sample No.	Sample Time	Packing	Analyses	Container	Quantity	Preservative	NOTES:
1	9.4.12	ice	8260B - VOCs + Oxys	VOAs	3	HCL	LL-707-090412-01 @ 16:13
1	16:13	ice	8015M - TPH-g	VOAs	3	HCL	

ADDITIONAL INFORMATION:

TOC = Top of well casing

*Casing Volume = $r^2h(ft) \times 7.48 \text{ gal/ft.}^3$

4" well = 0.66 Gal./Foot

2" well = 0.163 Gal./Foot

Page 2 of 2

PROJECT NO.: 1003-001-300

DATE: 9.4.2012

WELL NO.

SAMPLED BY: Frane Sosic

[illegible]

GROUNDWATER SAMPLING LOG

Page 1 of 2

PROJECT NAME: CENCO
PROJECT NO.: 1003-001-300
DATE: 3Q2012 9.5.2012

WELL NO. MW-708 Hospital
SAMPLED BY: Frane Sasic

Well Notes: May contain FPPH

WELL CONDITION: GOOD

WEATHER CONDITIONS: Cloudy/humid/intermittent rain (~77°F)

PURGING AND SAMPLING EQUIPMENT:
YSI 556
Interface probe (200')

WELL INFORMATION	
TOP OF CASING ELEV.	(ft.)
WELL DIAMETER 4"	(inches)
DEPTH OF WELL 130.00	(ft.)
DEPTH TO WATER 95.77	(ft.)
HEIGHT OF WATER COLUMN 34.23	(ft.)
CASING VOLUME* Hgt. x 0.66 Gal./Ft. = 22.5918	(gal)
PURGE VOLUME x 3 = 67.7754	(gal)
PRODUCT THICKNESS 95.88 - 95.77 = 0.11	(ft.)

PURGE DATA											
Time:	Purge Volume (Gal.)	Flow Rate (Gal./Min.)	pH	Sp.Cond. $\mu\text{S/cm}$	Turbidity NTUs	DO mg/L	Temperature (F/C)	TDS	ORP μV	Color	Odor
855	5	VAC TRUCK	7.87	1.941	/	3.03	24.45	/	-55.5	Trans. black	Strong
858	10		7.82	1.944	/	2.94	24.16	/	-127.2	Trans. black	Strong
900	15	↓	7.91	1.947	/	2.28	23.54	/	-113.3	Cloudy green	Strong

Sample No.	Sample Time	Packing	Analyses	Container	Quantity	Preservative	NOTES:
1	9.5.12	ice	8260B - VOCs + Oxys	VOAs	3	HCL	LL-708-090512-01 @ 9:39
1	939	ice	8015M - TPH-g	VOAs	3	HCL	

ADDITIONAL INFORMATION:

TOC = Top of well casing

*Casing Volume = $r^2 h(\text{ft}) \times 7.48 \text{ gal/ft.}^3$

4" well = 0.66 Gal./Foot

2" well = 0.163 Gal./Foot

Page 2 of 2

PROJECT NO.: 1003-001-300

DATE: 9.5.2012

708

SAMPLED BY: Frane Sosic

[illegible]

GROUNDWATER SAMPLING LOG

Page 1 of 2

PROJECT NAME: CENCO
PROJECT NO.: 1003-001-300
DATE: 3Q2012 9.5.2012

WELL NO. MW-709 Hospital
SAMPLED BY: Frane Sasic

Well Notes:
WELL CONDITION:

Very good

WEATHER CONDITIONS:
Cloudy/humid/drizzle (~80°F)

PURGING AND SAMPLING EQUIPMENT:
YSI 556
Interface probe (200')

WELL INFORMATION	
TOP OF CASING ELEV.	(ft.)
WELL DIAMETER 4"	(inches)
DEPTH OF WELL 130.00	(ft.)
DEPTH TO WATER 108.60	(ft.)
HEIGHT OF WATER COLUMN 21.40	(ft.)
CASING VOLUME* Hgt. x 0.66 Gal./Ft. = 14.124	(gal)
PURGE VOLUME x 3 = 42.372	(gal)
PRODUCT THICKNESS	(ft.)

PURGE DATA											
Time:	Purge Volume (Gal.)	Flow Rate (Gal./Min.)	pH	Sp.Cond. μ (S/cm)	Turbidity NTUs	DO mg/L	Temperature (F/C)	TDS	ORP mV	Color	Odor
1237	5		7.96	2.134	/	3.35	23.74	/	-117.9	Cloudy	Mild
1239	10		7.97	2.145	/	2.31	22.68	/	-97.4	Clear	Mild
1242	15		7.98	2.139	/	2.19	22.64	/	-112.7	Light gray	Mild

Sample No.	Sample Time	Packing	Analyses	Container	Quantity	Preservative	NOTES:
1	9.5.12	ice	8260B - VOCs + Oxys	VOAs	3	HCL	LL-709-090512-01 @ 1333
1	13:33	ice	8015M - TPH-g	VOAs	3	HCL	

ADDITIONAL INFORMATION:

TOC = Top of well casing

*Casing Volume = $r^2h(\text{ft}) \times 7.48 \text{ gal/ft.}^3$

4" well = 0.66 Gal./Foot

2" well = 0.163 Gal./Foot

Page 2 of 2

PROJECT NO.: 1003-001-300

DATE: 9.5.2012

SAMPLED BY: Frane Sosic

[illegible]

GROUNDWATER SAMPLING LOG

Page 1 of 2

PROJECT NAME: CENCO
 PROJECT NO.: 1003-001-300
 DATE: 3Q2012 9.5.2012

WELL NO. MW-710 Hospital
 SAMPLED BY: Frane Sasic

Well Notes:

WELL CONDITION:

Very Good

WEATHER CONDITIONS:

Cloudy / humid / breeze (~85°F)

PURGING AND SAMPLING EQUIPMENT:

YSI 556

Interface probe (200')

WELL INFORMATION	
TOP OF CASING ELEV.	(ft.)
WELL DIAMETER 4"	(inches)
DEPTH OF WELL 130.00	(ft.)
DEPTH TO WATER 94.25	(ft.)
HEIGHT OF WATER COLUMN 35.75	(ft.)
CASING VOLUME* Hgt. x .66 Gal./Ft. = 23.595	(gal)
PURGE VOLUME x 3 = 70.785	(gal)
PRODUCT THICKNESS	(ft.)

PURGE DATA											
Time:	Purge Volume (Gal.)	Flow Rate (Gal./Min.)	pH	Sp.Cond. (s/cm)	Turbidity NTUs	DO mg/L	Temperature (F/C)	TDS	ORP mV	Color	Odor
1416	5	VAC TRUCK	7.97	1.731	/	5.69	23.96	/	71.5	Cloudy	Slight
1418	10	↓	7.97	1.731	/	2.84	22.60	/	69.8	Cloudy	Slight
1420	15	↓	7.93	1.726	/	2.86	22.34	/	60.9	Cloudy	Slight

Sample No.	Sample Time	Packing	Analyses	Container	Quantity	Preservative	NOTES:
1	9.5.12	ice	8260B - VOCs + OxyS	VOAs	3	HCL	LL-710-090512-01 @ 15:00
1	1500	ice	8015M - TPH-g	VOAs	3	HCL	

ADDITIONAL INFORMATION:

TOC = Top of well casing

*Casing Volume = $r^2h(\text{ft}) \times 7.48 \text{ gal/ft.}^3$

4" well = 0.66 Gal./Foot

2" well = 0.163 Gal./Foot

Page 2 of 2

PROJECT NO.: 1003-001-300

DATE: 9.5.12

SAMPLED BY: Frane Sosic

[illegible]

GROUNDWATER SAMPLING LOG

Page 1 of 2

PROJECT NAME: CENCO
PROJECT NO.: 1003-001-300
DATE: 3Q2012 9.5.2012

WELL NO. MW-711 Hospital
SAMPLED BY: Frane Susic

Well Notes:
WELL CONDITION: GREAT

WEATHER CONDITIONS: Cloudy/humid/drizzle (~85°F)

PURGING AND SAMPLING EQUIPMENT:
YSI 556
Interface probe (200')

WELL INFORMATION	
TOP OF CASING ELEV.	(ft.)
WELL DIAMETER 4"	(inches)
DEPTH OF WELL 130.00	(ft.)
DEPTH TO WATER 101.05	(ft.)
HEIGHT OF WATER COLUMN 28.95	(ft.)
CASING VOLUME* Hgt. x .66 Gal./Ft. = 19.107	(gal)
PURGE VOLUME x 3 = 57.321	(gal)
PRODUCT THICKNESS	(ft.)

PURGE DATA											
Time:	Purge Volume (Gal.)	Flow Rate (Gal./Min.)	pH	Sp.Cond. (S/cm)	Turbidity NTUs	DO mg/L	Temperature (F/C)	TDS	ORP mV	Color	Odor
1514	5	VAC TRUCK	7.73	1.728	/	3.60	24.03	/	-175.3	Cloudy	Strong
1516	10	↓	7.77	1.704	/	2.65	23.02	/	-180.5	Cloudy	Strong
1518	15	↓	7.76	1.705	/	2.38	22.40	/	-182.1	Cloudy	Strong

Sample No.	Sample Time	Packing	Analyses	Container	Quantity	Preservative	NOTES:
1	9.5.12	ice	8260B - VOCs + Oxys	VOAs	3	HCL	LL-711-090512-01 @ 16:15
1	1615	ice	8015M - TPH-g	VOAs	3	HCL	

ADDITIONAL INFORMATION:

TOC = Top of well casing

*Casing Volume = $r^2 h(\text{ft}) \times 7.48 \text{ gal/ft.}^3$

4" well = 0.66 Gal./Foot

2" well = 0.163 Gal./Foot

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Page 2 of 2

PROJECT NO.: 1003-001-300

DATE: 9.5.12

SAMPLED BY: Frane Sosic

[illegible]

GROUNDWATER SAMPLING LOG

Page 1 of 2

PROJECT NAME: CENCO
PROJECT NO.: 1003-001-300
DATE: 3Q2012 9.6.2012

WELL NO. MW-712 Hospital
SAMPLED BY: Frane Sasic

Well Notes:

WELL CONDITION:

GREAT

WEATHER CONDITIONS:

Clear/sunny/hot (~85°F)

PURGING AND SAMPLING EQUIPMENT:

YSI 556

Interface probe (200')

WELL INFORMATION	
TOP OF CASING ELEV.	(ft.)
WELL DIAMETER	(inches)
DEPTH OF WELL	130.00 (ft.)
DEPTH TO WATER	98.14 (ft.)
HEIGHT OF WATER COLUMN	31.86 (ft.)
CASING VOLUME*	Hgt. x 66 Gal./Ft. = 21.0276 (gal)
PURGE VOLUME	x 3 = 63.0828 (gal)
PRODUCT THICKNESS	(ft.)

PURGE DATA											
Time:	Purge Volume (Gal.)	Flow Rate (Gal./Min.)	pH	Sp.Cond. (s/cm)	Turbidity NTUs	DO mg/L	Temperature (F/C)	TDS	ORP mV	Color	Odor
1045	5		7.72	1.703	/	4.20	24.19	/	-113.0	Cloudy	Strong
1051	10		7.77	1.697	/	2.87	23.59	/	-125.7	Yellowish	Strong
1053	15		7.78	1.702	/	2.63	23.57	/	-143.4	Yellowish	Strong

Sample No.	Sample Time	Packing	Analyses	Container	Quantity	Preservative	NOTES:
1	9.6.12	ice	8260B - VOCs + Oxys	VOAs	3	HCL	LL_712_090612_01 @ 11:30
1	11:30	ice	8015M - TPH-g	VOAs	3	HCL	

ADDITIONAL INFORMATION:

TOC = Top of well casing

*Casing Volume = $r^2h(\text{ft}) \times 7.48 \text{ gal/ft.}^3$

4" well = 0.66 Gal./Foot

2" well = 0.163 Gal./Foot

Page 2 of 2

PROJECT NO.: 1003-001-300

DATE: 9.6.12

712

SAMPLED BY: Frane Sosic

[illegible]

GROUNDWATER SAMPLING LOG

Page 1 of 2

PROJECT NAME: CENCO
PROJECT NO.: 1003-001-300
DATE: 3Q2012 9.6.2012

WELL NO. MW-713 Hospital
SAMPLED BY: Frane Susic

Well Notes:
WELL CONDITION:

Very good

WEATHER CONDITIONS:
Clear/sunny/hot (~95°F)

PURGING AND SAMPLING EQUIPMENT:
YSI 556
Interface probe (200')

WELL INFORMATION	
TOP OF CASING ELEV.	(ft.)
WELL DIAMETER	(inches)
DEPTH OF WELL	130.00 (ft.)
DEPTH TO WATER	103.83 (ft.)
HEIGHT OF WATER COLUMN	26.17 (ft.)
CASING VOLUME*	Hgt. x .66 Gal./Ft. = 17.2722 (gal)
PURGE VOLUME	x 3 = 51.8166 (gal)
PRODUCT THICKNESS	(ft.)

PURGE DATA											
Time:	Purge Volume (Gal.)	Flow Rate (Gal./Min.)	pH	Sp.Cond. mS/cm	Turbidity NTUs	DO mg/L	Temperature (F/C)	TDS	ORP mV	Color	Odor
1213	5	VAC TRUCK	7.92	1.927	/	2.98	25.63	/	-40.6	Cloudy	Strong
1215	10	↓	7.87	1.934	/	3.96	24.49	/	-97.8	Cloudy	Strong
1218	15	↓	7.75	1.983	/	2.85	24.37	/	-154.4	Cloudy	Strong

Sample No.	Sample Time	Packing	Analyses	Container	Quantity	Preservative	NOTES:
1	9.6.12	ice	8260B - VOCs + Oxys	VOAs	3	HCL	LL-713-090612-01 @ 1300
1	1300	ice	8015M - TPH-g	VOAs	3	HCL	

ADDITIONAL INFORMATION:

TOC = Top of well casing

*Casing Volume = $r^2h(\text{ft}) \times 7.48 \text{ gal/ft.}^3$

4" well = 0.66 Gal./Foot

2" well = 0.163 Gal./Foot

Page 2 of 2

PROJECT NO.: 1003-001-300

DATE: 9.6.2012

WELL NO.

SAMPLED BY: Frane Sosic

[illegible]

GROUNDWATER SAMPLING LOG

Page 1 of 2

PROJECT NAME: CENCO
PROJECT NO.: 1003-001-300
DATE: 3Q2012 9.6.2012

WELL NO. MW-714 Hospital
SAMPLED BY: Frane Sasic

Well Notes:

WELL CONDITION:

Very Good

WEATHER CONDITIONS:

Clear/sunny/hot (~95°F)

PURGING AND SAMPLING EQUIPMENT:

YSI 556

Interface probe (200')

WELL INFORMATION	
TOP OF CASING ELEV.	(ft.)
WELL DIAMETER 4"	(inches)
DEPTH OF WELL 135.00	(ft.)
DEPTH TO WATER 104.72	(ft.)
HEIGHT OF WATER COLUMN 30.28	(ft.)
CASING VOLUME* Hgt. x .66 Gal./Ft. = 19.9848	(gal)
PURGE VOLUME x 3 = 59.9544	(gal)
PRODUCT THICKNESS	(ft.)

PURGE DATA											
Time:	Purge Volume (Gal.)	Flow Rate (Gal./Min.)	pH	Sp.Cond. µS/cm	Turbidity NTUs	DO mg/L	Temperature (F / C)	TDS	ORP mV	Color	Odor
1323	5		7.81	2.495	/	3.21	25.73	/	-39.1	Cloudy	Mild
1326	10		7.84	2.486	/	3.04	23.74	/	-102.7	Clear	Mild
1328	15		7.78	2.480	/	2.24	23.55	/	-107.4	Clear	Mild

Sample No.	Sample Time	Packing	Analyses	Container	Quantity	Preservative	NOTES:
1	9.6.12	ice	8260B - VOCs + Oxys	VOAs	3	HCL	LL-714-090612-01 @ 14:00
1	1400	ice	8015M - TPH-g	VOAs	3	HCL	

ADDITIONAL INFORMATION:

TOC = Top of well casing

*Casing Volume = $r^2 h (ft) \times 7.48 \text{ gal/ft.}^3$

4" well = 0.66 Gal./Foot

2" well = 0.163 Gal./Foot

Page 2 of 2

PROJECT NO.: 1003-001-300

DATE: 9.6.2012

WELL NO.

SAMPLED BY: Frane Sosic

[illegible]

GROUNDWATER SAMPLING LOG

Page 1 of 2

PROJECT NAME: CENCO
PROJECT NO.: 1003-001-300
DATE: 3Q2012 9.6.2012

WELL NO. MW-715 Hospital
SAMPLED BY: Frane Sasic

Well Notes:

WELL CONDITION:

Very Good

WEATHER CONDITIONS:

PURGING AND SAMPLING EQUIPMENT:

YSI 556

Interface probe (200')

WELL INFORMATION	
TOP OF CASING ELEV.	(ft.)
WELL DIAMETER 4"	(inches)
DEPTH OF WELL	(ft.)
DEPTH TO WATER 96.30	(ft.)
HEIGHT OF WATER COLUMN 33.70	(ft.)
CASING VOLUME* Hgt. x .66 Gal./Ft. = 22.242	(gal)
PURGE VOLUME x 3 = 66.726	(gal)
PRODUCT THICKNESS	(ft.)

PURGE DATA											
Time:	Purge Volume (Gal.)	Flow Rate (Gal./Min.)	pH	Sp.Cond. µS/cm	Turbidity NTUs	DO mg/L	Temperature (F/C)	TDS	ORP mV	Color	Odor
1440	5		7.78	1.498	/	3.89	25.55	/	-76.9	Cloudy	Strong
1443	10		7.73	1.471	/	3.11	24.38	/	-127.2	Cloudy	Strong
1446	15		7.74	1.463	/	2.72	24.01	/	-130.8	Cloudy	Strong

Sample No.	Sample Time	Packing	Analyses	Container	Quantity	Preservative	NOTES:
1	9.6.12	ice	8260B - VOCs + Oxys	VOAs	3	HCL	LL-715-090612-01 @ 16:05
1	1605	ice	8015M - TPH-g	VOAs	3	HCL	

ADDITIONAL INFORMATION:

TOC = Top of well casing

*Casing Volume = $r^2h(ft) \times 7.48 \text{ gal/ft.}^3$

4" well = 0.66 Gal./Foot

2" well = 0.163 Gal./Foot

Page 2 of 2

PROJECT NO.: 1003-001-300

DATE: 9-6-12

715

SAMPLED BY: Frane Sosic

[illegible]

Appendix B



25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

28 August 2012

Jeremy Squire
Murex
15375 Barranca Parkway, Suite K-101
Irvine, CA 92861
RE: Cenco

Enclosed are the results of analyses for samples received by the laboratory on 08/20/12 15:50. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

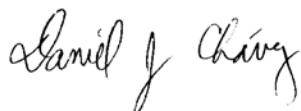
Daniel Chavez For Wendy Hsiao
Project Manager

Murex 15375 Barranca Parkway, Suite K-101 Irvine CA, 92861	Project: Cenco Project Number: 1003-001-300 Project Manager: Jeremy Squire	Reported: 08/28/12 18:01
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ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
LL_14A_082012_01	T121420-01	Water	08/20/12 08:40	08/20/12 15:50
LL_14B_082012_01	T121420-02	Water	08/20/12 10:36	08/20/12 15:50
LL_14C_082012_01	T121420-03	Water	08/20/12 12:30	08/20/12 15:50
LL_15B_082012_01	T121420-04	Water	08/20/12 14:00	08/20/12 15:50
LL_TB_082012	T121420-05	Water	08/20/12 14:00	08/20/12 15:50

SunStar Laboratories, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Daniel Chavez For Wendy Hsiao, Project Manager



25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
08/28/12 18:01

LL_14A_082012_01

T121420-01 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Purgeable Petroleum Hydrocarbons by EPA 8015C

C6-C12 (GRO)	1600	50	ug/l	1	2082119	08/21/12	08/22/12	EPA 8015C	
Surrogate 4-Bromofluorobenzene		109 %	72.6-146		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	1.0	ug/l	1	2082216	08/22/12	08/24/12	EPA 8260B	
Bromochloromethane	ND	1.0	"	"	"	"	"	"	
Bromodichloromethane	ND	1.0	"	"	"	"	"	"	
Bromoform	ND	1.0	"	"	"	"	"	"	
Bromomethane	ND	1.0	"	"	"	"	"	"	
n-Butylbenzene	ND	1.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	1.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"	
Chlorobenzene	ND	1.0	"	"	"	"	"	"	
Chloroethane	ND	1.0	"	"	"	"	"	"	
Chloroform	ND	1.0	"	"	"	"	"	"	
Chloromethane	ND	1.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
Dibromochloromethane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"	
Dibromomethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	

SunStar Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Daniel Chavez For Wendy Hsiao, Project Manager

Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
08/28/12 18:01

LL_14A_082012_01
T121420-01 (Water)

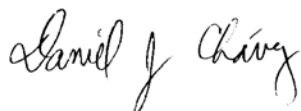
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

1,2-Dichloropropane	ND	1.0	ug/l	1	2082216	08/22/12	08/24/12	EPA 8260B
1,3-Dichloropropane	ND	1.0	"	"	"	"	"	"
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"
Isopropylbenzene	2.8	1.0	"	"	"	"	"	"
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"
Methylene chloride	ND	1.0	"	"	"	"	"	"
Naphthalene	110	1.0	"	"	"	"	08/24/12	"
n-Propylbenzene	8.9	1.0	"	"	"	"	08/24/12	"
Styrene	ND	1.0	"	"	"	"	"	"
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"
Tetrachloroethene	ND	1.0	"	"	"	"	"	"
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"
Trichloroethene	ND	1.0	"	"	"	"	"	"
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"
1,3,5-Trimethylbenzene	20	1.0	"	"	"	"	"	"
1,2,4-Trimethylbenzene	57	1.0	"	"	"	"	"	"
Vinyl chloride	ND	1.0	"	"	"	"	"	"
Benzene	500	12	"	25	"	"	"	"
Toluene	16	0.50	"	1	"	"	"	"
Ethylbenzene	34	0.50	"	"	"	"	"	"
m,p-Xylene	78	1.0	"	"	"	"	"	"
o-Xylene	64	0.50	"	"	"	"	"	"
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"
Tert-butyl alcohol	ND	10	"	"	"	"	"	"

SunStar Laboratories, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Murex 15375 Barranca Parkway, Suite K-101 Irvine CA, 92861	Project: Cenco Project Number: 1003-001-300 Project Manager: Jeremy Squire	Reported: 08/28/12 18:01
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LL_14A_082012_01
T121420-01 (Water)

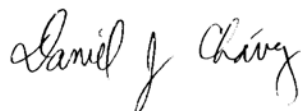
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Di-isopropyl ether	ND	2.0	ug/l	1	2082216	08/22/12	08/24/12	EPA 8260B
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"
Methyl tert-butyl ether	2.9	1.0	"	"	"	"	"	"
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	5.0	"	"	"	"	"	"
Surrogate 4-Bromofluorobenzene		104 %	83.5-119		"	"	"	"
Surrogate Dibromofluoromethane		92.9 %	81-136		"	"	"	"
Surrogate Toluene-d8		95.5 %	88.8-117		"	"	"	"

SunStar Laboratories, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Daniel Chavez For Wendy Hsiao, Project Manager



25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Murex	Project: Cenco	Reported:
15375 Barranca Parkway, Suite K-101	Project Number: 1003-001-300	08/28/12 18:01
Irvine CA, 92861	Project Manager: Jeremy Squire	

LL_14B_082012_01
T121420-02 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Purgeable Petroleum Hydrocarbons by EPA 8015C

C6-C12 (GRO)	180	50	ug/l	1	2082119	08/21/12	08/22/12	EPA 8015C	
Surrogate 4-Bromofluorobenzene		104 %	72.6-146		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	1.0	ug/l	1	2082216	08/22/12	08/24/12	EPA 8260B	
Bromochloromethane	ND	1.0	"	"	"	"	"	"	
Bromodichloromethane	ND	1.0	"	"	"	"	"	"	
Bromoform	ND	1.0	"	"	"	"	"	"	
Bromomethane	ND	1.0	"	"	"	"	"	"	
n-Butylbenzene	ND	1.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	1.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"	
Chlorobenzene	ND	1.0	"	"	"	"	"	"	
Chloroethane	ND	1.0	"	"	"	"	"	"	
Chloroform	ND	1.0	"	"	"	"	"	"	
Chloromethane	ND	1.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
Dibromochloromethane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"	
Dibromomethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethane	2.9	1.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethene	60	1.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	13	1.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	2.4	1.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	

SunStar Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
08/28/12 18:01

LL_14B_082012_01
T121420-02 (Water)

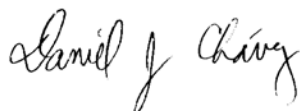
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

1,3-Dichloropropane	ND	1.0	ug/l	1	2082216	08/22/12	08/24/12	EPA 8260B	
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"	
Isopropylbenzene	ND	1.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"	
Methylene chloride	ND	1.0	"	"	"	"	"	"	
Naphthalene	ND	1.0	"	"	"	"	"	"	
n-Propylbenzene	ND	1.0	"	"	"	"	"	"	
Styrene	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
Tetrachloroethene	8.9	1.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"	
Trichloroethene	150	1.0	"	"	"	"	"	"	E
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
Vinyl chloride	ND	1.0	"	"	"	"	"	"	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
m,p-Xylene	ND	1.0	"	"	"	"	"	"	
o-Xylene	ND	0.50	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"	
Tert-butyl alcohol	56	10	"	"	"	"	"	"	

SunStar Laboratories, Inc.



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Murex 15375 Barranca Parkway, Suite K-101 Irvine CA, 92861	Project: Cenco Project Number: 1003-001-300 Project Manager: Jeremy Squire	Reported: 08/28/12 18:01
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LL_14B_082012_01
T121420-02 (Water)

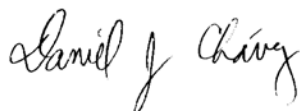
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Di-isopropyl ether	ND	2.0	ug/l	1	2082216	08/22/12	08/24/12	EPA 8260B
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"
Methyl tert-butyl ether	ND	1.0	"	"	"	"	"	"
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	5.0	"	"	"	"	"	"
Surrogate 4-Bromofluorobenzene		111 %	83.5-119		"	"	"	"
Surrogate Dibromofluoromethane		88.8 %	81-136		"	"	"	"
Surrogate Toluene-d8		98.4 %	88.8-117		"	"	"	"

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Daniel Chavez For Wendy Hsiao, Project Manager



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Murex	Project: Cenco	Reported:
15375 Barranca Parkway, Suite K-101	Project Number: 1003-001-300	08/28/12 18:01
Irvine CA, 92861	Project Manager: Jeremy Squire	

LL_14C_082012_01
T121420-03 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Purgeable Petroleum Hydrocarbons by EPA 8015C

C6-C12 (GRO)	71	50	ug/l	1	2082119	08/21/12	08/22/12	EPA 8015C	
Surrogate 4-Bromofluorobenzene	95.4 %	72.6-146	"	"	"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	1.0	ug/l	1	2082216	08/22/12	08/24/12	EPA 8260B	
Bromochloromethane	ND	1.0	"	"	"	"	"	"	
Bromodichloromethane	ND	1.0	"	"	"	"	"	"	
Bromoform	ND	1.0	"	"	"	"	"	"	
Bromomethane	ND	1.0	"	"	"	"	"	"	
n-Butylbenzene	ND	1.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	1.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"	
Chlorobenzene	ND	1.0	"	"	"	"	"	"	
Chloroethane	ND	1.0	"	"	"	"	"	"	
Chloroform	ND	1.0	"	"	"	"	"	"	
Chloromethane	ND	1.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
Dibromochloromethane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"	
Dibromomethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethene	1.4	1.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	5.8	1.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	

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Daniel Chavez For Wendy Hsiao, Project Manager

Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
08/28/12 18:01

LL_14C_082012_01
T121420-03 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

1,3-Dichloropropane	ND	1.0	ug/l	1	2082216	08/22/12	08/24/12	EPA 8260B
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"
Isopropylbenzene	ND	1.0	"	"	"	"	"	"
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"
Methylene chloride	ND	1.0	"	"	"	"	"	"
Naphthalene	ND	1.0	"	"	"	"	"	"
n-Propylbenzene	ND	1.0	"	"	"	"	"	"
Styrene	ND	1.0	"	"	"	"	"	"
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"
Tetrachloroethene	ND	1.0	"	"	"	"	"	"
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"
Trichloroethene	ND	1.0	"	"	"	"	"	"
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"
Vinyl chloride	ND	1.0	"	"	"	"	"	"
Benzene	ND	0.50	"	"	"	"	"	"
Toluene	ND	0.50	"	"	"	"	"	"
Ethylbenzene	ND	0.50	"	"	"	"	"	"
m,p-Xylene	ND	1.0	"	"	"	"	"	"
o-Xylene	ND	0.50	"	"	"	"	"	"
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"
Tert-butyl alcohol	ND	10	"	"	"	"	"	"

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Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
08/28/12 18:01

LL_14C_082012_01
T121420-03 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Di-isopropyl ether	ND	2.0	ug/l	1	2082216	08/22/12	08/24/12	EPA 8260B
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"
Methyl tert-butyl ether	ND	1.0	"	"	"	"	"	"
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	5.0	"	"	"	"	"	"
Surrogate 4-Bromofluorobenzene		111 %	83.5-119		"	"	"	"
Surrogate Dibromofluoromethane		90.6 %	81-136		"	"	"	"
Surrogate Toluene-d8		95.1 %	88.8-117		"	"	"	"

SunStar Laboratories, Inc.

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Daniel Chavez For Wendy Hsiao, Project Manager

Murex	Project: Cenco	Reported:
15375 Barranca Parkway, Suite K-101	Project Number: 1003-001-300	08/28/12 18:01
Irvine CA, 92861	Project Manager: Jeremy Squire	

LL_15B_082012_01
T121420-04 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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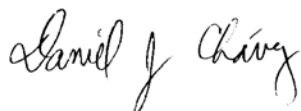
Purgeable Petroleum Hydrocarbons by EPA 8015C

C6-C12 (GRO)	98	50	ug/l	1	2082119	08/21/12	08/22/12	EPA 8015C	
Surrogate 4-Bromofluorobenzene	95.5 %	72.6-146	"	"	"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	1.0	ug/l	1	2082216	08/22/12	08/24/12	EPA 8260B	
Bromochloromethane	ND	1.0	"	"	"	"	"	"	
Bromodichloromethane	ND	1.0	"	"	"	"	"	"	
Bromoform	ND	1.0	"	"	"	"	"	"	
Bromomethane	ND	1.0	"	"	"	"	"	"	
n-Butylbenzene	ND	1.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	1.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"	
Chlorobenzene	ND	1.0	"	"	"	"	"	"	
Chloroethane	ND	1.0	"	"	"	"	"	"	
Chloroform	ND	1.0	"	"	"	"	"	"	
Chloromethane	ND	1.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
Dibromochloromethane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"	
Dibromomethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	

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15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
08/28/12 18:01

LL_15B_082012_01
T121420-04 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

1,2-Dichloropropane	ND	1.0	ug/l	1	2082216	08/22/12	08/24/12	EPA 8260B
1,3-Dichloropropane	ND	1.0	"	"	"	"	"	"
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"
Isopropylbenzene	2.7	1.0	"	"	"	"	"	"
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"
Methylene chloride	ND	1.0	"	"	"	"	"	"
Naphthalene	ND	1.0	"	"	"	"	"	"
n-Propylbenzene	2.9	1.0	"	"	"	"	"	"
Styrene	ND	1.0	"	"	"	"	"	"
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"
Tetrachloroethene	ND	1.0	"	"	"	"	"	"
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"
Trichloroethene	ND	1.0	"	"	"	"	"	"
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"
Vinyl chloride	ND	1.0	"	"	"	"	"	"
Benzene	2.6	0.50	"	"	"	"	"	"
Toluene	ND	0.50	"	"	"	"	"	"
Ethylbenzene	ND	0.50	"	"	"	"	"	"
m,p-Xylene	ND	1.0	"	"	"	"	"	"
o-Xylene	0.52	0.50	"	"	"	"	"	"
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"

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Daniel Chavez For Wendy Hsiao, Project Manager

Murex 15375 Barranca Parkway, Suite K-101 Irvine CA, 92861	Project: Cenco Project Number: 1003-001-300 Project Manager: Jeremy Squire	Reported: 08/28/12 18:01
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LL_15B_082012_01
T121420-04 (Water)

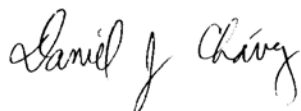
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Tert-butyl alcohol	87	10	ug/l	1	2082216	08/22/12	08/24/12	EPA 8260B	
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	
Methyl tert-butyl ether	110	1.0	"	"	"	"	"	"	
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	5.0	"	"	"	"	"	"	
Surrogate 4-Bromofluorobenzene		111 %	83.5-119		"	"	"	"	
Surrogate Dibromofluoromethane		90.1 %	81-136		"	"	"	"	
Surrogate Toluene-d8		96.2 %	88.8-117		"	"	"	"	

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Daniel Chavez For Wendy Hsiao, Project Manager



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Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
08/28/12 18:01

LL_TB_082012
T121420-05 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	1.0	ug/l	1	2082709	08/27/12	08/28/12	EPA 8260B	
Bromochloromethane	ND	1.0	"	"	"	"	"	"	
Bromodichloromethane	ND	1.0	"	"	"	"	"	"	
Bromoform	ND	1.0	"	"	"	"	"	"	
Bromomethane	ND	1.0	"	"	"	"	"	"	
n-Butylbenzene	ND	1.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	1.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"	
Chlorobenzene	ND	1.0	"	"	"	"	"	"	
Chloroethane	ND	1.0	"	"	"	"	"	"	
Chloroform	ND	1.0	"	"	"	"	"	"	
Chloromethane	ND	1.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
Dibromochloromethane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"	
Dibromomethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
1,3-Dichloropropane	ND	1.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"	

SunStar Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Daniel Chavez For Wendy Hsiao, Project Manager



25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
08/28/12 18:01

LL_TB_082012
T121420-05 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

cis-1,3-Dichloropropene	ND	0.50	ug/l	1	2082709	08/27/12	08/28/12	EPA 8260B
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"
Isopropylbenzene	ND	1.0	"	"	"	"	"	"
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"
Methylene chloride	ND	1.0	"	"	"	"	"	"
Naphthalene	ND	1.0	"	"	"	"	"	"
n-Propylbenzene	ND	1.0	"	"	"	"	"	"
Styrene	ND	1.0	"	"	"	"	"	"
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"
Tetrachloroethene	ND	1.0	"	"	"	"	"	"
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"
Trichloroethene	ND	1.0	"	"	"	"	"	"
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"
Vinyl chloride	ND	1.0	"	"	"	"	"	"
Benzene	ND	0.50	"	"	"	"	"	"
Toluene	ND	0.50	"	"	"	"	"	"
Ethylbenzene	ND	0.50	"	"	"	"	"	"
m,p-Xylene	ND	1.0	"	"	"	"	"	"
o-Xylene	ND	0.50	"	"	"	"	"	"
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"
Tert-butyl alcohol	ND	10	"	"	"	"	"	"
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"
Methyl tert-butyl ether	ND	1.0	"	"	"	"	"	"

SunStar Laboratories, Inc.

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Daniel Chavez For Wendy Hsiao, Project Manager



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Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
08/28/12 18:01

LL_TB_082012
T121420-05 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	5.0	ug/l	1	2082709	08/27/12	08/28/12	EPA 8260B	
Surrogate 4-Bromofluorobenzene	93.4 %	83.5-119			"	"	"	"	
Surrogate Dibromofluoromethane	75.1 %	81-136			"	"	"	"	S-GC
Surrogate Toluene-d8	88.6 %	88.8-117			"	"	"	"	S-GC

SunStar Laboratories, Inc.

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Daniel Chavez For Wendy Hsiao, Project Manager



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Murex 15375 Barranca Parkway, Suite K-101 Irvine CA, 92861	Project: Cenco Project Number: 1003-001-300 Project Manager: Jeremy Squire	Reported: 08/28/12 18:01
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Purgeable Petroleum Hydrocarbons by EPA 8015C - Quality Control
SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2082119 - EPA 5030 GC										
Blank (2082119-BLK1)				Prepared: 08/21/12 Analyzed: 08/22/12						
C6-C12 (GRO)	ND	50	ug/l							
Surrogate 4-Bromofluorobenzene	92.1		"	100		92.1	72.6-146			
LCS (2082119-BS1)				Prepared: 08/21/12 Analyzed: 08/22/12						
C6-C12 (GRO)	5690	50	ug/l	5500		103	75-125			
Surrogate 4-Bromofluorobenzene	131		"	100		131	72.6-146			
LCS Dup (2082119-BSD1)				Prepared: 08/21/12 Analyzed: 08/22/12						
C6-C12 (GRO)	5760	50	ug/l	5500		105	75-125	1.20	20	
Surrogate 4-Bromofluorobenzene	120		"	100		120	72.6-146			

SunStar Laboratories, Inc.

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Daniel Chavez For Wendy Hsiao, Project Manager



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Murex 15375 Barranca Parkway, Suite K-101 Irvine CA, 92861	Project: Cenco Project Number: 1003-001-300 Project Manager: Jeremy Squire	Reported: 08/28/12 18:01
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Volatile Organic Compounds by EPA Method 8260B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2082216 - EPA 5030 GCMS

Blank (2082216-BLK1)

Prepared & Analyzed: 08/22/12

Bromobenzene	ND	1.0	ug/l
Bromochloromethane	ND	1.0	"
Bromodichloromethane	ND	1.0	"
Bromoform	ND	1.0	"
Bromomethane	ND	1.0	"
n-Butylbenzene	ND	1.0	"
sec-Butylbenzene	ND	1.0	"
tert-Butylbenzene	ND	1.0	"
Carbon tetrachloride	ND	0.50	"
Chlorobenzene	ND	1.0	"
Chloroethane	ND	1.0	"
Chloroform	ND	1.0	"
Chloromethane	ND	1.0	"
2-Chlorotoluene	ND	1.0	"
4-Chlorotoluene	ND	1.0	"
Dibromochloromethane	ND	1.0	"
1,2-Dibromo-3-chloropropane	ND	1.0	"
1,2-Dibromoethane (EDB)	ND	1.0	"
Dibromomethane	ND	1.0	"
1,2-Dichlorobenzene	ND	1.0	"
1,3-Dichlorobenzene	ND	1.0	"
1,4-Dichlorobenzene	ND	1.0	"
Dichlorodifluoromethane	ND	0.50	"
1,1-Dichloroethane	ND	1.0	"
1,2-Dichloroethane	ND	0.50	"
1,1-Dichloroethene	ND	1.0	"
cis-1,2-Dichloroethene	ND	1.0	"
trans-1,2-Dichloroethene	ND	1.0	"
1,2-Dichloropropane	ND	1.0	"
1,3-Dichloropropane	ND	1.0	"
2,2-Dichloropropane	ND	1.0	"
1,1-Dichloropropene	ND	1.0	"
cis-1,3-Dichloropropene	ND	0.50	"
trans-1,3-Dichloropropene	ND	0.50	"
Hexachlorobutadiene	ND	1.0	"
Isopropylbenzene	ND	1.0	"

SunStar Laboratories, Inc.

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Daniel Chavez For Wendy Hsiao, Project Manager



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Murex	Project: Cenco	Reported:
15375 Barranca Parkway, Suite K-101	Project Number: 1003-001-300	08/28/12 18:01
Irvine CA, 92861	Project Manager: Jeremy Squire	

Volatile Organic Compounds by EPA Method 8260B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2082216 - EPA 5030 GCMS

Blank (2082216-BLK1)

Prepared & Analyzed: 08/22/12

p-Isopropyltoluene	ND	1.0	ug/l							
Methylene chloride	ND	1.0	"							
Naphthalene	ND	1.0	"							
n-Propylbenzene	ND	1.0	"							
Styrene	ND	1.0	"							
1,1,2,2-Tetrachloroethane	ND	1.0	"							
1,1,1,2-Tetrachloroethane	ND	1.0	"							
Tetrachloroethene	ND	1.0	"							
1,2,3-Trichlorobenzene	ND	1.0	"							
1,2,4-Trichlorobenzene	ND	1.0	"							
1,1,2-Trichloroethane	ND	1.0	"							
1,1,1-Trichloroethane	ND	1.0	"							
Trichloroethene	ND	1.0	"							
Trichlorofluoromethane	ND	1.0	"							
1,2,3-Trichloropropane	ND	1.0	"							
1,3,5-Trimethylbenzene	ND	1.0	"							
1,2,4-Trimethylbenzene	ND	1.0	"							
Vinyl chloride	ND	1.0	"							
Benzene	ND	0.50	"							
Toluene	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
m,p-Xylene	ND	1.0	"							
o-Xylene	ND	0.50	"							
Tert-amyl methyl ether	ND	2.0	"							
Tert-butyl alcohol	ND	10	"							
Di-isopropyl ether	ND	2.0	"							
Ethyl tert-butyl ether	ND	2.0	"							
Methyl tert-butyl ether	ND	1.0	"							
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	5.0	"							
Surrogate 4-Bromofluorobenzene	7.86		"	8.00		98.2	83.5-119			
Surrogate Dibromofluoromethane	7.98		"	8.00		99.8	81-136			
Surrogate Toluene-d8	8.44		"	8.00		106	88.8-117			

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Daniel Chavez For Wendy Hsiao, Project Manager



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Murex 15375 Barranca Parkway, Suite K-101 Irvine CA, 92861	Project: Cenco Project Number: 1003-001-300 Project Manager: Jeremy Squire	Reported: 08/28/12 18:01
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Volatile Organic Compounds by EPA Method 8260B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2082216 - EPA 5030 GCMS

LCS (2082216-BS1)

Prepared & Analyzed: 08/22/12

Chlorobenzene	17.3	1.0	ug/l	20.0		86.4	75-125			
1,1-Dichloroethene	19.8	1.0	"	20.0		99.1	75-125			
Trichloroethene	19.5	1.0	"	20.0		97.3	75-125			
Benzene	19.9	0.50	"	20.0		99.6	75-125			
Toluene	19.3	0.50	"	20.0		96.4	75-125			
Surrogate 4-Bromofluorobenzene	8.64		"	8.00		108	83.5-119			
Surrogate Dibromofluoromethane	8.16		"	8.00		102	81-136			
Surrogate Toluene-d8	8.35		"	8.00		104	88.8-117			

LCS Dup (2082216-BSD1)

Prepared & Analyzed: 08/22/12

Chlorobenzene	17.2	1.0	ug/l	20.0		85.8	75-125	0.696	20	
1,1-Dichloroethene	20.3	1.0	"	20.0		102	75-125	2.59	20	
Trichloroethene	19.0	1.0	"	20.0		94.8	75-125	2.55	20	
Benzene	19.6	0.50	"	20.0		97.8	75-125	1.77	20	
Toluene	18.3	0.50	"	20.0		91.5	75-125	5.16	20	
Surrogate 4-Bromofluorobenzene	8.36		"	8.00		104	83.5-119			
Surrogate Dibromofluoromethane	8.07		"	8.00		101	81-136			
Surrogate Toluene-d8	8.06		"	8.00		101	88.8-117			

Batch 2082709 - EPA 5030 GCMS

Blank (2082709-BLK1)

Prepared: 08/27/12 Analyzed: 08/28/12

Bromobenzene	ND	1.0	ug/l							
Bromochloromethane	ND	1.0	"							
Bromodichloromethane	ND	1.0	"							
Bromoform	ND	1.0	"							
Bromomethane	ND	1.0	"							
n-Butylbenzene	ND	1.0	"							
sec-Butylbenzene	ND	1.0	"							
tert-Butylbenzene	ND	1.0	"							
Carbon tetrachloride	ND	0.50	"							
Chlorobenzene	ND	1.0	"							
Chloroethane	ND	1.0	"							
Chloroform	ND	1.0	"							
Chloromethane	ND	1.0	"							
2-Chlorotoluene	ND	1.0	"							

SunStar Laboratories, Inc.

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Daniel Chavez For Wendy Hsiao, Project Manager



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Murex 15375 Barranca Parkway, Suite K-101 Irvine CA, 92861	Project: Cenco Project Number: 1003-001-300 Project Manager: Jeremy Squire	Reported: 08/28/12 18:01
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Volatile Organic Compounds by EPA Method 8260B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2082709 - EPA 5030 GCMS

Blank (2082709-BLK1)

Prepared: 08/27/12 Analyzed: 08/28/12

4-Chlorotoluene	ND	1.0	ug/l
Dibromochloromethane	ND	1.0	"
1,2-Dibromo-3-chloropropane	ND	1.0	"
1,2-Dibromoethane (EDB)	ND	1.0	"
Dibromomethane	ND	1.0	"
1,2-Dichlorobenzene	ND	1.0	"
1,3-Dichlorobenzene	ND	1.0	"
1,4-Dichlorobenzene	ND	1.0	"
Dichlorodifluoromethane	ND	0.50	"
1,1-Dichloroethane	ND	1.0	"
1,2-Dichloroethane	ND	0.50	"
1,1-Dichloroethene	ND	1.0	"
cis-1,2-Dichloroethene	ND	1.0	"
trans-1,2-Dichloroethene	ND	1.0	"
1,2-Dichloropropane	ND	1.0	"
1,3-Dichloropropane	ND	1.0	"
2,2-Dichloropropane	ND	1.0	"
1,1-Dichloropropene	ND	1.0	"
cis-1,3-Dichloropropene	ND	0.50	"
trans-1,3-Dichloropropene	ND	0.50	"
Hexachlorobutadiene	ND	1.0	"
Isopropylbenzene	ND	1.0	"
p-Isopropyltoluene	ND	1.0	"
Methylene chloride	ND	1.0	"
Naphthalene	ND	1.0	"
n-Propylbenzene	ND	1.0	"
Styrene	ND	1.0	"
1,1,2,2-Tetrachloroethane	ND	1.0	"
1,1,1,2-Tetrachloroethane	ND	1.0	"
Tetrachloroethene	ND	1.0	"
1,2,3-Trichlorobenzene	ND	1.0	"
1,2,4-Trichlorobenzene	ND	1.0	"
1,1,2-Trichloroethane	ND	1.0	"
1,1,1-Trichloroethane	ND	1.0	"
Trichloroethene	ND	1.0	"
Trichlorofluoromethane	ND	1.0	"

SunStar Laboratories, Inc.

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Daniel Chavez For Wendy Hsiao, Project Manager

Murex 15375 Barranca Parkway, Suite K-101 Irvine CA, 92861	Project: Cenco Project Number: 1003-001-300 Project Manager: Jeremy Squire	Reported: 08/28/12 18:01
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Volatile Organic Compounds by EPA Method 8260B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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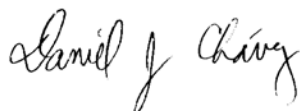
Batch 2082709 - EPA 5030 GCMS

Blank (2082709-BLK1)

Prepared: 08/27/12 Analyzed: 08/28/12

1,2,3-Trichloropropane	ND	1.0	ug/l							
1,3,5-Trimethylbenzene	ND	1.0	"							
1,2,4-Trimethylbenzene	ND	1.0	"							
Vinyl chloride	ND	1.0	"							
Benzene	ND	0.50	"							
Toluene	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
m,p-Xylene	ND	1.0	"							
o-Xylene	ND	0.50	"							
Tert-amyl methyl ether	ND	2.0	"							
Tert-butyl alcohol	ND	10	"							
Di-isopropyl ether	ND	2.0	"							
Ethyl tert-butyl ether	ND	2.0	"							
Methyl tert-butyl ether	ND	1.0	"							
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	5.0	"							
Surrogate 4-Bromofluorobenzene	7.66		"	8.00		95.8	83.5-119			
Surrogate Dibromofluoromethane	7.72		"	8.00		96.5	81-136			
Surrogate Toluene-d8	8.09		"	8.00		101	88.8-117			

SunStar Laboratories, Inc.



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Daniel Chavez For Wendy Hsiao, Project Manager

Murex 15375 Barranca Parkway, Suite K-101 Irvine CA, 92861	Project: Cenco Project Number: 1003-001-300 Project Manager: Jeremy Squire	Reported: 08/28/12 18:01
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Notes and Definitions

S-GC Surrogate recovery outside of established control limits. The data was accepted based on valid recovery of the remaining surrogate(s).

E The concentration indicated for this analyte is above the calibration range of the instrument. This value should be considered as an estimate as the actual value may be higher.

DET Analyte DETECTED

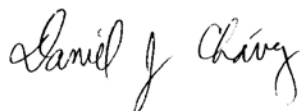
ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

SunStar Laboratories, Inc.



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Daniel Chavez For Wendy Hsiao, Project Manager

Chain of Custody Record

Date: 8.20.2012
Project Name: CENCO
Collector: Frane Sosic
Batch #: 7121420

Page: 1 OF 1

Client Project #: 1003-001-300

EDF #: _____

[illegible]

Sample disposal Instructions: Disposal @ \$2.00 each _____ Return to client _____ Pickup _____

SAMPLE RECEIVING REVIEW SHEET

BATCH # 7121420

Client Name: MUREX

Project: CENCO

Received by: SUNNY

Date/Time Received: 8.20.12 / 15:50

Delivered by: ☐ Client ☒ SunStar Courier ☐ GSO ☐ FedEx ☐ Other _____

Total number of coolers received 0 Temp criteria = 6°C > 0°C (no frozen containers)

Temperature: cooler #1 6.8 °C +/- the CF (-0.2°C) = 6.6 °C corrected temperature

cooler #2 _____ °C +/- the CF (-0.2°C) = _____ °C corrected temperature

cooler #3 _____ °C +/- the CF (-0.2°C) = _____ °C corrected temperature

Samples outside temp. but received on ice, w/in 6 hours of final sampling. ☒ Yes ☐ No* ☐ N/A

Custody Seals Intact on Cooler/Sample ☐ Yes ☐ No* ☒ N/A

Sample Containers Intact ☒ Yes ☐ No*

Sample labels match COC ID's ☒ Yes ☐ No*

Total number of containers received match COC ☒ Yes ☐ No*

Proper containers received for analyses requested on COC ☒ Yes ☐ No*

Proper preservative indicated on COC/containers for analyses requested ☒ Yes ☐ No* ☐ N/A

Complete shipment received in good condition with correct temperatures, containers, labels, volumes preservatives and within method specified holding times. ☒ Yes ☐ No*

* Complete Non-Conformance Receiving Sheet if checked

Cooler/Sample Review - Initials and date SK 8.20.12

Comments:



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Lake Forest, California 92630
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28 August 2012

Jeremy Squire
Murex
15375 Barranca Parkway, Suite K-101
Irvine, CA 92861
RE: Cenco

Enclosed are the results of analyses for samples received by the laboratory on 08/21/12 16:30. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Daniel Chavez For Wendy Hsiao
Project Manager



25712 Commercentre Drive
Lake Forest, California 92630
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Murex 15375 Barranca Parkway, Suite K-101 Irvine CA, 92861	Project: Cenco Project Number: 1003-001-300 Project Manager: Jeremy Squire	Reported: 08/28/12 18:03
--	--	------------------------------------

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
LL_15A_082112_01	T121426-01	Water	08/21/12 11:30	08/21/12 16:30
LL_15C_082112_01	T121426-02	Water	08/21/12 16:13	08/21/12 16:30
LL_TB_082112	T121426-03	Water	08/21/12 00:00	08/21/12 16:30

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Daniel Chavez For Wendy Hsiao, Project Manager



25712 Commercentre Drive
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949.297.5020 Phone
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Murex	Project: Cenco	Reported:
15375 Barranca Parkway, Suite K-101	Project Number: 1003-001-300	08/28/12 18:03
Irvine CA, 92861	Project Manager: Jeremy Squire	

LL_15A_082112_01

T121426-01 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Purgeable Petroleum Hydrocarbons by EPA 8015C

C6-C12 (GRO)	23000	50	ug/l	1	2082226	08/22/12	08/24/12	EPA 8015C	
Surrogate 4-Bromofluorobenzene		103 %	72.6-146		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	25	ug/l	25	2082216	08/22/12	08/24/12	EPA 8260B	
Bromochloromethane	ND	25	"	"	"	"	"	"	
Bromodichloromethane	ND	25	"	"	"	"	"	"	
Bromoform	ND	25	"	"	"	"	"	"	
Bromomethane	ND	25	"	"	"	"	"	"	
n-Butylbenzene	49	25	"	"	"	"	"	"	
sec-Butylbenzene	ND	25	"	"	"	"	"	"	
tert-Butylbenzene	ND	25	"	"	"	"	"	"	
Carbon tetrachloride	ND	12	"	"	"	"	"	"	
Chlorobenzene	ND	25	"	"	"	"	"	"	
Chloroethane	ND	25	"	"	"	"	"	"	
Chloroform	ND	25	"	"	"	"	"	"	
Chloromethane	ND	25	"	"	"	"	"	"	
2-Chlorotoluene	ND	25	"	"	"	"	"	"	
4-Chlorotoluene	28	25	"	"	"	"	"	"	
Dibromochloromethane	ND	25	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	25	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	25	"	"	"	"	"	"	
Dibromomethane	ND	25	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	25	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	25	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	25	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	12	"	"	"	"	"	"	
1,1-Dichloroethane	ND	25	"	"	"	"	"	"	
1,2-Dichloroethane	ND	12	"	"	"	"	"	"	
1,1-Dichloroethene	ND	25	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	25	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	25	"	"	"	"	"	"	

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Daniel Chavez For Wendy Hsiao, Project Manager



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Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
08/28/12 18:03

LL_15A_082112_01
T121426-01 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

1,2-Dichloropropane	ND	25	ug/l	25	2082216	08/22/12	08/24/12	EPA 8260B
1,3-Dichloropropane	ND	25	"	"	"	"	"	"
2,2-Dichloropropane	ND	25	"	"	"	"	"	"
1,1-Dichloropropene	ND	25	"	"	"	"	"	"
cis-1,3-Dichloropropene	ND	12	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	12	"	"	"	"	"	"
Hexachlorobutadiene	ND	25	"	"	"	"	"	"
Isopropylbenzene	47	25	"	"	"	"	"	"
p-Isopropyltoluene	ND	25	"	"	"	"	"	"
Methylene chloride	ND	25	"	"	"	"	"	"
Naphthalene	190	25	"	"	"	"	"	"
n-Propylbenzene	110	25	"	"	"	"	"	"
Styrene	ND	25	"	"	"	"	"	"
1,1,2,2-Tetrachloroethane	ND	25	"	"	"	"	"	"
1,1,1,2-Tetrachloroethane	ND	25	"	"	"	"	"	"
Tetrachloroethene	ND	25	"	"	"	"	"	"
1,2,3-Trichlorobenzene	ND	25	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	25	"	"	"	"	"	"
1,1,2-Trichloroethane	ND	25	"	"	"	"	"	"
1,1,1-Trichloroethane	ND	25	"	"	"	"	"	"
Trichloroethene	ND	25	"	"	"	"	"	"
Trichlorofluoromethane	ND	25	"	"	"	"	"	"
1,2,3-Trichloropropane	ND	25	"	"	"	"	"	"
1,3,5-Trimethylbenzene	340	25	"	"	"	"	"	"
1,2,4-Trimethylbenzene	1100	25	"	"	"	"	"	"
Vinyl chloride	ND	25	"	"	"	"	"	"
Benzene	540	12	"	"	"	"	"	"
Toluene	370	12	"	"	"	"	"	"
Ethylbenzene	590	12	"	"	"	"	"	"
m,p-Xylene	3300	25	"	"	"	"	"	"
o-Xylene	620	12	"	"	"	"	"	"
Tert-amyl methyl ether	ND	50	"	"	"	"	"	"
Tert-butyl alcohol	ND	250	"	"	"	"	"	"

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Murex 15375 Barranca Parkway, Suite K-101 Irvine CA, 92861	Project: Cenco Project Number: 1003-001-300 Project Manager: Jeremy Squire	Reported: 08/28/12 18:03
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LL_15A_082112_01
T121426-01 (Water)

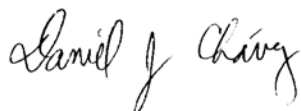
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Di-isopropyl ether	ND	50	ug/l	25	2082216	08/22/12	08/24/12	EPA 8260B	
Ethyl tert-butyl ether	ND	50	"	"	"	"	"	"	
Methyl tert-butyl ether	160	25	"	"	"	"	"	"	
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	120	"	"	"	"	"	"	
Surrogate 4-Bromofluorobenzene		100 %	83.5-119		"	"	"	"	S-GC
Surrogate Dibromofluoromethane		95.4 %	81-136		"	"	"	"	
Surrogate Toluene-d8		96.1 %	88.8-117		"	"	"	"	

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Daniel Chavez For Wendy Hsiao, Project Manager



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Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
08/28/12 18:03

LL_15C_082112_01
T121426-02 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Purgeable Petroleum Hydrocarbons by EPA 8015C

C6-C12 (GRO)	140	50	ug/l	1	2082226	08/22/12	08/24/12	EPA 8015C	
Surrogate 4-Bromofluorobenzene		91.1 %	72.6-146		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	1.0	ug/l	1	2082216	08/22/12	08/24/12	EPA 8260B	
Bromochloromethane	ND	1.0	"	"	"	"	"	"	
Bromodichloromethane	ND	1.0	"	"	"	"	"	"	
Bromoform	ND	1.0	"	"	"	"	"	"	
Bromomethane	ND	1.0	"	"	"	"	"	"	
n-Butylbenzene	ND	1.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	1.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"	
Chlorobenzene	ND	1.0	"	"	"	"	"	"	
Chloroethane	ND	1.0	"	"	"	"	"	"	
Chloroform	ND	1.0	"	"	"	"	"	"	
Chloromethane	ND	1.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
Dibromochloromethane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"	
Dibromomethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethene	1.2	1.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	5.2	1.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	

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Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
08/28/12 18:03

LL_15C_082112_01
T121426-02 (Water)

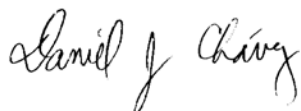
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Volatile Organic Compounds by EPA Method 8260B

1,3-Dichloropropane	ND	1.0	ug/l	1	2082216	08/22/12	08/24/12	EPA 8260B
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"
Isopropylbenzene	ND	1.0	"	"	"	"	"	"
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"
Methylene chloride	ND	1.0	"	"	"	"	"	"
Naphthalene	2.9	1.0	"	"	"	"	"	"
n-Propylbenzene	ND	1.0	"	"	"	"	"	"
Styrene	ND	1.0	"	"	"	"	"	"
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"
Tetrachloroethene	ND	1.0	"	"	"	"	"	"
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"
Trichloroethene	3.7	1.0	"	"	"	"	"	"
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"
1,2,4-Trimethylbenzene	1.5	1.0	"	"	"	"	"	"
Vinyl chloride	ND	1.0	"	"	"	"	"	"
Benzene	4.1	0.50	"	"	"	"	"	"
Toluene	1.7	0.50	"	"	"	"	"	"
Ethylbenzene	0.92	0.50	"	"	"	"	"	"
m,p-Xylene	5.9	1.0	"	"	"	"	"	"
o-Xylene	1.4	0.50	"	"	"	"	"	"
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"
Tert-butyl alcohol	10	10	"	"	"	"	"	"
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"

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Murex 15375 Barranca Parkway, Suite K-101 Irvine CA, 92861	Project: Cenco Project Number: 1003-001-300 Project Manager: Jeremy Squire	Reported: 08/28/12 18:03
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LL_15C_082112_01
T121426-02 (Water)

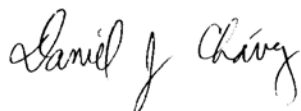
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Ethyl tert-butyl ether	ND	2.0	ug/l	1	2082216	08/22/12	08/24/12	EPA 8260B
Methyl tert-butyl ether	1.7	1.0	"	"	"	"	"	"
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	5.0	"	"	"	"	"	"
Surrogate 4-Bromofluorobenzene		108 %	83.5-119		"	"	"	"
Surrogate Dibromofluoromethane		89.0 %	81-136		"	"	"	"
Surrogate Toluene-d8		98.9 %	88.8-117		"	"	"	"

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Page 7 of 17

Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
08/28/12 18:03

LL_TB_082112
T121426-03 (Water)

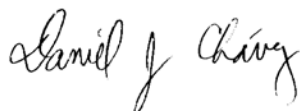
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	1.0	ug/l	1	2082709	08/27/12	08/28/12	EPA 8260B
Bromochloromethane	ND	1.0	"	"	"	"	"	"
Bromodichloromethane	ND	1.0	"	"	"	"	"	"
Bromoform	ND	1.0	"	"	"	"	"	"
Bromomethane	ND	1.0	"	"	"	"	"	"
n-Butylbenzene	ND	1.0	"	"	"	"	"	"
sec-Butylbenzene	ND	1.0	"	"	"	"	"	"
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"
Chlorobenzene	ND	1.0	"	"	"	"	"	"
Chloroethane	ND	1.0	"	"	"	"	"	"
Chloroform	ND	1.0	"	"	"	"	"	"
Chloromethane	ND	1.0	"	"	"	"	"	"
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"
Dibromochloromethane	ND	1.0	"	"	"	"	"	"
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"
Dibromomethane	ND	1.0	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"
cis-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"
1,2-Dichloropropane	ND	1.0	"	"	"	"	"	"
1,3-Dichloropropane	ND	1.0	"	"	"	"	"	"
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"

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Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
08/28/12 18:03

LL_TB_082112
T121426-03 (Water)

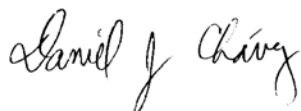
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

cis-1,3-Dichloropropene	ND	0.50	ug/l	1	2082709	08/27/12	08/28/12	EPA 8260B
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"
Isopropylbenzene	ND	1.0	"	"	"	"	"	"
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"
Methylene chloride	ND	1.0	"	"	"	"	"	"
Naphthalene	ND	1.0	"	"	"	"	"	"
n-Propylbenzene	ND	1.0	"	"	"	"	"	"
Styrene	ND	1.0	"	"	"	"	"	"
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"
Tetrachloroethene	ND	1.0	"	"	"	"	"	"
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"
Trichloroethene	ND	1.0	"	"	"	"	"	"
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"
Vinyl chloride	ND	1.0	"	"	"	"	"	"
Benzene	ND	0.50	"	"	"	"	"	"
Toluene	ND	0.50	"	"	"	"	"	"
Ethylbenzene	ND	0.50	"	"	"	"	"	"
m,p-Xylene	ND	1.0	"	"	"	"	"	"
o-Xylene	ND	0.50	"	"	"	"	"	"
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"
Tert-butyl alcohol	ND	10	"	"	"	"	"	"
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"
Methyl tert-butyl ether	ND	1.0	"	"	"	"	"	"

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Murex
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Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
08/28/12 18:03

LL_TB_082112
T121426-03 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	5.0	ug/l	1	2082709	08/27/12	08/28/12	EPA 8260B	
Surrogate 4-Bromofluorobenzene	94.4 %	83.5-119			"	"	"	"	
Surrogate Dibromofluoromethane	95.8 %	81-136			"	"	"	"	
Surrogate Toluene-d8	90.2 %	88.8-117			"	"	"	"	

SunStar Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Daniel Chavez For Wendy Hsiao, Project Manager



25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Murex	Project: Cenco	
15375 Barranca Parkway, Suite K-101	Project Number: 1003-001-300	
Irvine CA, 92861	Project Manager: Jeremy Squire	Reported: 08/28/12 18:03

Purgeable Petroleum Hydrocarbons by EPA 8015C - Quality Control
SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2082226 - EPA 5030 GC										
Blank (2082226-BLK1)				Prepared: 08/22/12 Analyzed: 08/24/12						
C6-C12 (GRO)	ND	50	ug/l							
Surrogate 4-Bromofluorobenzene	103		"	100		103	72.6-146			
LCS (2082226-BS1)				Prepared: 08/22/12 Analyzed: 08/24/12						
C6-C12 (GRO)	4330	50	ug/l	5500		78.6	75-125			
Surrogate 4-Bromofluorobenzene	112		"	100		112	72.6-146			
Matrix Spike (2082226-MS1)				Source: T121426-01		Prepared: 08/22/12 Analyzed: 08/24/12				
C6-C12 (GRO)	16900	50	ug/l	5500	22600	NR	65-135			QM-05
Surrogate 4-Bromofluorobenzene	100		"	100		100	72.6-146			
Matrix Spike Dup (2082226-MSD1)				Source: T121426-01		Prepared: 08/22/12 Analyzed: 08/24/12				
C6-C12 (GRO)	15200	50	ug/l	5500	22600	NR	65-135	10.9	20	QM-05
Surrogate 4-Bromofluorobenzene	105		"	100		105	72.6-146			

SunStar Laboratories, Inc.

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Daniel Chavez For Wendy Hsiao, Project Manager



25712 Commercentre Drive
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Murex 15375 Barranca Parkway, Suite K-101 Irvine CA, 92861	Project: Cenco Project Number: 1003-001-300 Project Manager: Jeremy Squire	Reported: 08/28/12 18:03
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Volatile Organic Compounds by EPA Method 8260B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2082216 - EPA 5030 GCMS

Blank (2082216-BLK1)

Prepared & Analyzed: 08/22/12

Bromobenzene	ND	1.0	ug/l
Bromochloromethane	ND	1.0	"
Bromodichloromethane	ND	1.0	"
Bromoform	ND	1.0	"
Bromomethane	ND	1.0	"
n-Butylbenzene	ND	1.0	"
sec-Butylbenzene	ND	1.0	"
tert-Butylbenzene	ND	1.0	"
Carbon tetrachloride	ND	0.50	"
Chlorobenzene	ND	1.0	"
Chloroethane	ND	1.0	"
Chloroform	ND	1.0	"
Chloromethane	ND	1.0	"
2-Chlorotoluene	ND	1.0	"
4-Chlorotoluene	ND	1.0	"
Dibromochloromethane	ND	1.0	"
1,2-Dibromo-3-chloropropane	ND	1.0	"
1,2-Dibromoethane (EDB)	ND	1.0	"
Dibromomethane	ND	1.0	"
1,2-Dichlorobenzene	ND	1.0	"
1,3-Dichlorobenzene	ND	1.0	"
1,4-Dichlorobenzene	ND	1.0	"
Dichlorodifluoromethane	ND	0.50	"
1,1-Dichloroethane	ND	1.0	"
1,2-Dichloroethane	ND	0.50	"
1,1-Dichloroethene	ND	1.0	"
cis-1,2-Dichloroethene	ND	1.0	"
trans-1,2-Dichloroethene	ND	1.0	"
1,2-Dichloropropane	ND	1.0	"
1,3-Dichloropropane	ND	1.0	"
2,2-Dichloropropane	ND	1.0	"
1,1-Dichloropropene	ND	1.0	"
cis-1,3-Dichloropropene	ND	0.50	"
trans-1,3-Dichloropropene	ND	0.50	"
Hexachlorobutadiene	ND	1.0	"
Isopropylbenzene	ND	1.0	"

SunStar Laboratories, Inc.

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Daniel Chavez For Wendy Hsiao, Project Manager



25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
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Murex	Project: Cenco	Reported:
15375 Barranca Parkway, Suite K-101	Project Number: 1003-001-300	08/28/12 18:03
Irvine CA, 92861	Project Manager: Jeremy Squire	

Volatile Organic Compounds by EPA Method 8260B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2082216 - EPA 5030 GCMS

Blank (2082216-BLK1)

Prepared & Analyzed: 08/22/12

p-Isopropyltoluene	ND	1.0	ug/l							
Methylene chloride	ND	1.0	"							
Naphthalene	ND	1.0	"							
n-Propylbenzene	ND	1.0	"							
Styrene	ND	1.0	"							
1,1,2,2-Tetrachloroethane	ND	1.0	"							
1,1,1,2-Tetrachloroethane	ND	1.0	"							
Tetrachloroethene	ND	1.0	"							
1,2,3-Trichlorobenzene	ND	1.0	"							
1,2,4-Trichlorobenzene	ND	1.0	"							
1,1,2-Trichloroethane	ND	1.0	"							
1,1,1-Trichloroethane	ND	1.0	"							
Trichloroethene	ND	1.0	"							
Trichlorofluoromethane	ND	1.0	"							
1,2,3-Trichloropropane	ND	1.0	"							
1,3,5-Trimethylbenzene	ND	1.0	"							
1,2,4-Trimethylbenzene	ND	1.0	"							
Vinyl chloride	ND	1.0	"							
Benzene	ND	0.50	"							
Toluene	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
m,p-Xylene	ND	1.0	"							
o-Xylene	ND	0.50	"							
Tert-amyl methyl ether	ND	2.0	"							
Tert-butyl alcohol	ND	10	"							
Di-isopropyl ether	ND	2.0	"							
Ethyl tert-butyl ether	ND	2.0	"							
Methyl tert-butyl ether	ND	1.0	"							
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	5.0	"							
Surrogate 4-Bromofluorobenzene	7.86		"	8.00		98.2	83.5-119			
Surrogate Dibromofluoromethane	7.98		"	8.00		99.8	81-136			
Surrogate Toluene-d8	8.44		"	8.00		106	88.8-117			

SunStar Laboratories, Inc.

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Daniel Chavez For Wendy Hsiao, Project Manager



25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
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Murex	Project: Cenco	
15375 Barranca Parkway, Suite K-101	Project Number: 1003-001-300	Reported:
Irvine CA, 92861	Project Manager: Jeremy Squire	08/28/12 18:03

Volatile Organic Compounds by EPA Method 8260B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2082216 - EPA 5030 GCMS

LCS (2082216-BS1)

Prepared & Analyzed: 08/22/12

Chlorobenzene	17.3	1.0	ug/l	20.0		86.4	75-125			
1,1-Dichloroethene	19.8	1.0	"	20.0		99.1	75-125			
Trichloroethene	19.5	1.0	"	20.0		97.3	75-125			
Benzene	19.9	0.50	"	20.0		99.6	75-125			
Toluene	19.3	0.50	"	20.0		96.4	75-125			
Surrogate 4-Bromofluorobenzene	8.64		"	8.00		108	83.5-119			
Surrogate Dibromofluoromethane	8.16		"	8.00		102	81-136			
Surrogate Toluene-d8	8.35		"	8.00		104	88.8-117			

LCS Dup (2082216-BSD1)

Prepared & Analyzed: 08/22/12

Chlorobenzene	17.2	1.0	ug/l	20.0		85.8	75-125	0.696	20	
1,1-Dichloroethene	20.3	1.0	"	20.0		102	75-125	2.59	20	
Trichloroethene	19.0	1.0	"	20.0		94.8	75-125	2.55	20	
Benzene	19.6	0.50	"	20.0		97.8	75-125	1.77	20	
Toluene	18.3	0.50	"	20.0		91.5	75-125	5.16	20	
Surrogate 4-Bromofluorobenzene	8.36		"	8.00		104	83.5-119			
Surrogate Dibromofluoromethane	8.07		"	8.00		101	81-136			
Surrogate Toluene-d8	8.06		"	8.00		101	88.8-117			

Batch 2082709 - EPA 5030 GCMS

Blank (2082709-BLK1)

Prepared: 08/27/12 Analyzed: 08/28/12

Bromobenzene	ND	1.0	ug/l							
Bromochloromethane	ND	1.0	"							
Bromodichloromethane	ND	1.0	"							
Bromoform	ND	1.0	"							
Bromomethane	ND	1.0	"							
n-Butylbenzene	ND	1.0	"							
sec-Butylbenzene	ND	1.0	"							
tert-Butylbenzene	ND	1.0	"							
Carbon tetrachloride	ND	0.50	"							
Chlorobenzene	ND	1.0	"							
Chloroethane	ND	1.0	"							
Chloroform	ND	1.0	"							
Chloromethane	ND	1.0	"							
2-Chlorotoluene	ND	1.0	"							

SunStar Laboratories, Inc.

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Daniel Chavez For Wendy Hsiao, Project Manager



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Lake Forest, California 92630
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Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
08/28/12 18:03

Volatile Organic Compounds by EPA Method 8260B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2082709 - EPA 5030 GCMS

Blank (2082709-BLK1)

Prepared: 08/27/12 Analyzed: 08/28/12

4-Chlorotoluene	ND	1.0	ug/l
Dibromochloromethane	ND	1.0	"
1,2-Dibromo-3-chloropropane	ND	1.0	"
1,2-Dibromoethane (EDB)	ND	1.0	"
Dibromomethane	ND	1.0	"
1,2-Dichlorobenzene	ND	1.0	"
1,3-Dichlorobenzene	ND	1.0	"
1,4-Dichlorobenzene	ND	1.0	"
Dichlorodifluoromethane	ND	0.50	"
1,1-Dichloroethane	ND	1.0	"
1,2-Dichloroethane	ND	0.50	"
1,1-Dichloroethene	ND	1.0	"
cis-1,2-Dichloroethene	ND	1.0	"
trans-1,2-Dichloroethene	ND	1.0	"
1,2-Dichloropropane	ND	1.0	"
1,3-Dichloropropane	ND	1.0	"
2,2-Dichloropropane	ND	1.0	"
1,1-Dichloropropene	ND	1.0	"
cis-1,3-Dichloropropene	ND	0.50	"
trans-1,3-Dichloropropene	ND	0.50	"
Hexachlorobutadiene	ND	1.0	"
Isopropylbenzene	ND	1.0	"
p-Isopropyltoluene	ND	1.0	"
Methylene chloride	ND	1.0	"
Naphthalene	ND	1.0	"
n-Propylbenzene	ND	1.0	"
Styrene	ND	1.0	"
1,1,2,2-Tetrachloroethane	ND	1.0	"
1,1,1,2-Tetrachloroethane	ND	1.0	"
Tetrachloroethene	ND	1.0	"
1,2,3-Trichlorobenzene	ND	1.0	"
1,2,4-Trichlorobenzene	ND	1.0	"
1,1,2-Trichloroethane	ND	1.0	"
1,1,1-Trichloroethane	ND	1.0	"
Trichloroethene	ND	1.0	"
Trichlorofluoromethane	ND	1.0	"

SunStar Laboratories, Inc.

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Daniel Chavez For Wendy Hsiao, Project Manager



25712 Commercentre Drive
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Murex 15375 Barranca Parkway, Suite K-101 Irvine CA, 92861	Project: Cenco Project Number: 1003-001-300 Project Manager: Jeremy Squire	Reported: 08/28/12 18:03
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Volatile Organic Compounds by EPA Method 8260B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2082709 - EPA 5030 GCMS

Blank (2082709-BLK1)

Prepared: 08/27/12 Analyzed: 08/28/12

1,2,3-Trichloropropane	ND	1.0	ug/l							
1,3,5-Trimethylbenzene	ND	1.0	"							
1,2,4-Trimethylbenzene	ND	1.0	"							
Vinyl chloride	ND	1.0	"							
Benzene	ND	0.50	"							
Toluene	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
m,p-Xylene	ND	1.0	"							
o-Xylene	ND	0.50	"							
Tert-amyl methyl ether	ND	2.0	"							
Tert-butyl alcohol	ND	10	"							
Di-isopropyl ether	ND	2.0	"							
Ethyl tert-butyl ether	ND	2.0	"							
Methyl tert-butyl ether	ND	1.0	"							
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	5.0	"							
Surrogate 4-Bromofluorobenzene	7.66		"	8.00		95.8	83.5-119			
Surrogate Dibromofluoromethane	7.72		"	8.00		96.5	81-136			
Surrogate Toluene-d8	8.09		"	8.00		101	88.8-117			

SunStar Laboratories, Inc.

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Daniel Chavez For Wendy Hsiao, Project Manager

Murex 15375 Barranca Parkway, Suite K-101 Irvine CA, 92861	Project: Cenco Project Number: 1003-001-300 Project Manager: Jeremy Squire	Reported: 08/28/12 18:03
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Notes and Definitions

S-GC Surrogate recovery outside of established control limits. The data was accepted based on valid recovery of the remaining surrogate(s).

QM-05 The spike recovery was outside acceptance limits for the MS and/or MSD due to possible matrix interference. The LCS was within acceptance criteria. The data is acceptable as no negative impact on data is expected.

DET Analyte DETECTED

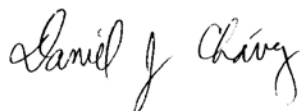
ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

SunStar Laboratories, Inc.



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Daniel Chavez For Wendy Hsiao, Project Manager

Chain of Custody Record

Date: 8-21-2012
Project Name: CENCO
Collector: Frane Sosic
Batch #: T121426

Client Project #: 1003-001-300

EDF #: _____

Sample disposal Instructions:	Disposal @ \$2.00 each	Return to client	Pickup
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SAMPLE RECEIVING REVIEW SHEET

BATCH # 7121426

Client Name: MUREX ENV.

Project: CENCO

Received by: SUNNY

Date/Time Received: 8.21.12 / 16:30

Delivered by: ☐ Client ☒ SunStar Courier ☐ GSO ☐ FedEx ☐ Other _____

Total number of coolers received 0 Temp criteria = 6°C > 0°C (no frozen containers)

Temperature: cooler #1 10.8 °C +/- the CF (- 0.2°C) = 10.6 °C corrected temperature

cooler #2 _____ °C +/- the CF (- 0.2°C) = _____ °C corrected temperature

cooler #3 _____ °C +/- the CF (- 0.2°C) = _____ °C corrected temperature

Samples outside temp. but received on ice, w/in 6 hours of final sampling. ☒ Yes ☐ No* ☐ N/A

Custody Seals Intact on Cooler/Sample ☐ Yes ☐ No* ☒ N/A

Sample Containers Intact ☒ Yes ☐ No*

Sample labels match COC ID's ☒ Yes ☐ No*

Total number of containers received match COC ☒ Yes ☐ No*

Proper containers received for analyses requested on COC ☒ Yes ☐ No*

Proper preservative indicated on COC/containers for analyses requested ☒ Yes ☐ No* ☐ N/A

Complete shipment received in good condition with correct temperatures, containers, labels, volumes preservatives and within method specified holding times. ☒ Yes ☐ No*

* Complete Non-Conformance Receiving Sheet if checked

Cooler/Sample Review - Initials and date 82 8.21.12

Comments:



25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

30 August 2012

Jeremy Squire
Murex
15375 Barranca Parkway, Suite K-101
Irvine, CA 92861
RE: Cenco

Enclosed are the results of analyses for samples received by the laboratory on 08/23/12 16:02. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Katherine Shields For Wendy Hsiao
Project Manager

Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
08/30/12 14:06

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
LL_16A_082212_01	T121447-01	Water	08/22/12 10:37	08/23/12 16:02
LL_16B_082212_01	T121447-02	Water	08/22/12 12:00	08/23/12 16:02
LL_16C_082212_01	T121447-03	Water	08/22/12 15:45	08/23/12 16:02
LL_17A_082312_01	T121447-04	Water	08/23/12 11:32	08/23/12 16:02
LL_17B_082312_01	T121447-05	Water	08/23/12 12:55	08/23/12 16:02
LL_17C_082312_01	T121447-06	Water	08/23/12 15:00	08/23/12 16:02
LL_TB_082312_01	T121447-07	Water	08/23/12 00:00	08/23/12 16:02

Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
08/30/12 14:06

LL_16A_082212_01

T121447-01 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Purgeable Petroleum Hydrocarbons by EPA 8015C

C6-C12 (GRO)	390	50	ug/l	1	2082403	08/24/12	08/27/12	EPA 8015C
Surrogate: 4-Bromofluorobenzene		109 %	72.6-146		"	"	"	"

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	1.0	ug/l	1	2082402	08/24/12	08/29/12	EPA 8260B
Bromochloromethane	ND	1.0	"	"	"	"	"	"
Bromodichloromethane	ND	1.0	"	"	"	"	"	"
Bromoform	ND	1.0	"	"	"	"	"	"
Bromomethane	ND	1.0	"	"	"	"	"	"
n-Butylbenzene	ND	1.0	"	"	"	"	"	"
sec-Butylbenzene	ND	1.0	"	"	"	"	"	"
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"
Chlorobenzene	ND	1.0	"	"	"	"	"	"
Chloroethane	ND	1.0	"	"	"	"	"	"
Chloroform	ND	1.0	"	"	"	"	"	"
Chloromethane	ND	1.0	"	"	"	"	"	"
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"
Dibromochloromethane	ND	1.0	"	"	"	"	"	"
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"
Dibromomethane	ND	1.0	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"
cis-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"

SunStar Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
08/30/12 14:06

LL_16A_082212_01
T121447-01 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

1,2-Dichloropropane	ND	1.0	ug/l	1	2082402	08/24/12	08/29/12	EPA 8260B
1,3-Dichloropropane	ND	1.0	"	"	"	"	"	"
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"
Isopropylbenzene	4.1	1.0	"	"	"	"	"	"
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"
Methylene chloride	ND	1.0	"	"	"	"	"	"
Naphthalene	ND	1.0	"	"	"	"	"	"
n-Propylbenzene	ND	1.0	"	"	"	"	"	"
Styrene	ND	1.0	"	"	"	"	"	"
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"
Tetrachloroethene	ND	1.0	"	"	"	"	"	"
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"
Trichloroethene	ND	1.0	"	"	"	"	"	"
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"
Vinyl chloride	ND	1.0	"	"	"	"	"	"
Benzene	11	0.50	"	"	"	"	"	"
Toluene	ND	0.50	"	"	"	"	"	"
Ethylbenzene	ND	0.50	"	"	"	"	"	"
m,p-Xylene	ND	1.0	"	"	"	"	"	"
o-Xylene	ND	0.50	"	"	"	"	"	"
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"

SunStar Laboratories, Inc.

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Murex 15375 Barranca Parkway, Suite K-101 Irvine CA, 92861	Project: Cenco Project Number: 1003-001-300 Project Manager: Jeremy Squire	Reported: 08/30/12 14:06
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LL_16A_082212_01
T121447-01 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Tert-butyl alcohol	ND	10	ug/l	1	2082402	08/24/12	08/29/12	EPA 8260B
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"
Methyl tert-butyl ether	ND	1.0	"	"	"	"	"	"
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	5.0	"	"	"	"	"	"
<i>Surrogate: 4-Bromofluorobenzene</i>		<i>94.6 %</i>	<i>83.5-119</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>
<i>Surrogate: Dibromofluoromethane</i>		<i>82.6 %</i>	<i>81-136</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>
<i>Surrogate: Toluene-d8</i>		<i>93.0 %</i>	<i>88.8-117</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>

Murex 15375 Barranca Parkway, Suite K-101 Irvine CA, 92861	Project: Cenco Project Number: 1003-001-300 Project Manager: Jeremy Squire	Reported: 08/30/12 14:06
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LL_16B_082212_01
T121447-02 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Purgeable Petroleum Hydrocarbons by EPA 8015C

C6-C12 (GRO)	61	50	ug/l	1	2082403	08/24/12	08/27/12	EPA 8015C
Surrogate: 4-Bromofluorobenzene	98.5 %	72.6-146	"	"	"	"	"	"

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	1.0	ug/l	1	2082402	08/24/12	08/29/12	EPA 8260B
Bromochloromethane	ND	1.0	"	"	"	"	"	"
Bromodichloromethane	ND	1.0	"	"	"	"	"	"
Bromoform	ND	1.0	"	"	"	"	"	"
Bromomethane	ND	1.0	"	"	"	"	"	"
n-Butylbenzene	ND	1.0	"	"	"	"	"	"
sec-Butylbenzene	ND	1.0	"	"	"	"	"	"
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"
Chlorobenzene	ND	1.0	"	"	"	"	"	"
Chloroethane	ND	1.0	"	"	"	"	"	"
Chloroform	ND	1.0	"	"	"	"	"	"
Chloromethane	ND	1.0	"	"	"	"	"	"
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"
Dibromochloromethane	ND	1.0	"	"	"	"	"	"
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"
Dibromomethane	ND	1.0	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"
cis-1,2-Dichloroethene	6.0	1.0	"	"	"	"	"	"
trans-1,2-Dichloroethene	3.5	1.0	"	"	"	"	"	"
1,2-Dichloropropane	ND	1.0	"	"	"	"	"	"

SunStar Laboratories, Inc.

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Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
08/30/12 14:06

LL_16B_082212_01
T121447-02 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

1,3-Dichloropropane	ND	1.0	ug/l	1	2082402	08/24/12	08/29/12	EPA 8260B
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"
Isopropylbenzene	ND	1.0	"	"	"	"	"	"
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"
Methylene chloride	ND	1.0	"	"	"	"	"	"
Naphthalene	ND	1.0	"	"	"	"	"	"
n-Propylbenzene	ND	1.0	"	"	"	"	"	"
Styrene	ND	1.0	"	"	"	"	"	"
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"
Tetrachloroethene	ND	1.0	"	"	"	"	"	"
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"
Trichloroethene	ND	1.0	"	"	"	"	"	"
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"
Vinyl chloride	ND	1.0	"	"	"	"	"	"
Benzene	8.7	0.50	"	"	"	"	"	"
Toluene	ND	0.50	"	"	"	"	"	"
Ethylbenzene	ND	0.50	"	"	"	"	"	"
m,p-Xylene	ND	1.0	"	"	"	"	"	"
o-Xylene	ND	0.50	"	"	"	"	"	"
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"
Tert-butyl alcohol	ND	10	"	"	"	"	"	"

SunStar Laboratories, Inc.

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Murex 15375 Barranca Parkway, Suite K-101 Irvine CA, 92861	Project: Cenco Project Number: 1003-001-300 Project Manager: Jeremy Squire	Reported: 08/30/12 14:06
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LL_16B_082212_01
T121447-02 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Di-isopropyl ether	ND	2.0	ug/l	1	2082402	08/24/12	08/29/12	EPA 8260B
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"
Methyl tert-butyl ether	ND	1.0	"	"	"	"	"	"
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	5.0	"	"	"	"	"	"
<i>Surrogate: 4-Bromofluorobenzene</i>		<i>92.1 %</i>	<i>83.5-119</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>
<i>Surrogate: Dibromofluoromethane</i>		<i>86.1 %</i>	<i>81-136</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>
<i>Surrogate: Toluene-d8</i>		<i>93.5 %</i>	<i>88.8-117</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>

Murex 15375 Barranca Parkway, Suite K-101 Irvine CA, 92861	Project: Cenco Project Number: 1003-001-300 Project Manager: Jeremy Squire	Reported: 08/30/12 14:06
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LL_16C_082212_01
T121447-03 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Purgeable Petroleum Hydrocarbons by EPA 8015C

C6-C12 (GRO)	520	50	ug/l	1	2082403	08/24/12	08/27/12	EPA 8015C	
Surrogate: 4-Bromofluorobenzene		107 %	72.6-146		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	25	ug/l	25	2082402	08/24/12	08/29/12	EPA 8260B	
Bromochloromethane	ND	25	"	"	"	"	"	"	
Bromodichloromethane	ND	25	"	"	"	"	"	"	
Bromoform	ND	25	"	"	"	"	"	"	
Bromomethane	ND	25	"	"	"	"	"	"	
n-Butylbenzene	ND	25	"	"	"	"	"	"	
sec-Butylbenzene	ND	25	"	"	"	"	"	"	
tert-Butylbenzene	ND	25	"	"	"	"	"	"	
Carbon tetrachloride	ND	12	"	"	"	"	"	"	
Chlorobenzene	ND	25	"	"	"	"	"	"	
Chloroethane	ND	25	"	"	"	"	"	"	
Chloroform	ND	25	"	"	"	"	"	"	
Chloromethane	ND	25	"	"	"	"	"	"	
2-Chlorotoluene	ND	25	"	"	"	"	"	"	
4-Chlorotoluene	ND	25	"	"	"	"	"	"	
Dibromochloromethane	ND	25	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	25	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	25	"	"	"	"	"	"	
Dibromomethane	ND	25	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	25	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	25	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	25	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	12	"	"	"	"	"	"	
1,1-Dichloroethane	ND	25	"	"	"	"	"	"	
1,2-Dichloroethane	ND	12	"	"	"	"	"	"	
1,1-Dichloroethene	ND	25	"	"	"	"	"	"	
cis-1,2-Dichloroethene	42	25	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	25	"	"	"	"	"	"	
1,2-Dichloropropane	ND	25	"	"	"	"	"	"	

SunStar Laboratories, Inc.

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Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
08/30/12 14:06

LL_16C_082212_01
T121447-03 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

1,3-Dichloropropane	ND	25	ug/l	25	2082402	08/24/12	08/29/12	EPA 8260B
2,2-Dichloropropane	ND	25	"	"	"	"	"	"
1,1-Dichloropropene	ND	25	"	"	"	"	"	"
cis-1,3-Dichloropropene	ND	12	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	12	"	"	"	"	"	"
Hexachlorobutadiene	ND	25	"	"	"	"	"	"
Isopropylbenzene	ND	25	"	"	"	"	"	"
p-Isopropyltoluene	ND	25	"	"	"	"	"	"
Methylene chloride	ND	25	"	"	"	"	"	"
Naphthalene	ND	25	"	"	"	"	"	"
n-Propylbenzene	ND	25	"	"	"	"	"	"
Styrene	ND	25	"	"	"	"	"	"
1,1,2,2-Tetrachloroethane	ND	25	"	"	"	"	"	"
1,1,1,2-Tetrachloroethane	ND	25	"	"	"	"	"	"
Tetrachloroethene	ND	25	"	"	"	"	"	"
1,2,3-Trichlorobenzene	ND	25	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	25	"	"	"	"	"	"
1,1,2-Trichloroethane	ND	25	"	"	"	"	"	"
1,1,1-Trichloroethane	ND	25	"	"	"	"	"	"
Trichloroethene	ND	25	"	"	"	"	"	"
Trichlorofluoromethane	ND	25	"	"	"	"	"	"
1,2,3-Trichloropropane	ND	25	"	"	"	"	"	"
1,3,5-Trimethylbenzene	ND	25	"	"	"	"	"	"
1,2,4-Trimethylbenzene	ND	25	"	"	"	"	"	"
Vinyl chloride	ND	25	"	"	"	"	"	"
Benzene	22	12	"	"	"	"	"	"
Toluene	ND	12	"	"	"	"	"	"
Ethylbenzene	ND	12	"	"	"	"	"	"
m,p-Xylene	ND	25	"	"	"	"	"	"
o-Xylene	ND	12	"	"	"	"	"	"
Tert-amyl methyl ether	ND	50	"	"	"	"	"	"
Tert-butyl alcohol	ND	250	"	"	"	"	"	"

SunStar Laboratories, Inc.

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Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
08/30/12 14:06

LL_16C_082212_01
T121447-03 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Di-isopropyl ether	ND	50	ug/l	25	2082402	08/24/12	08/29/12	EPA 8260B	
Ethyl tert-butyl ether	ND	50	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	25	"	"	"	"	"	"	
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	120	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		91.4 %	83.5-119		"	"	"	"	
Surrogate: Dibromofluoromethane		80.0 %	81-136		"	"	"	"	S-GC
Surrogate: Toluene-d8		92.6 %	88.8-117		"	"	"	"	

Murex 15375 Barranca Parkway, Suite K-101 Irvine CA, 92861	Project: Cenco Project Number: 1003-001-300 Project Manager: Jeremy Squire	Reported: 08/30/12 14:06
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LL_17A_082312_01
T121447-04 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Purgeable Petroleum Hydrocarbons by EPA 8015C

C6-C12 (GRO)	ND	50	ug/l	1	2082403	08/24/12	08/27/12	EPA 8015C	
Surrogate: 4-Bromofluorobenzene		93.2 %	72.6-146		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	1.0	ug/l	1	2082402	08/24/12	08/29/12	EPA 8260B	
Bromochloromethane	ND	1.0	"	"	"	"	"	"	
Bromodichloromethane	ND	1.0	"	"	"	"	"	"	
Bromoform	ND	1.0	"	"	"	"	"	"	
Bromomethane	ND	1.0	"	"	"	"	"	"	
n-Butylbenzene	ND	1.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	1.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"	
Chlorobenzene	ND	1.0	"	"	"	"	"	"	
Chloroethane	ND	1.0	"	"	"	"	"	"	
Chloroform	ND	1.0	"	"	"	"	"	"	
Chloromethane	ND	1.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
Dibromochloromethane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"	
Dibromomethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	2.9	1.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	

SunStar Laboratories, Inc.

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Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
08/30/12 14:06

LL_17A_082312_01
T121447-04 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

1,2-Dichloropropane	ND	1.0	ug/l	1	2082402	08/24/12	08/29/12	EPA 8260B	
1,3-Dichloropropane	ND	1.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"	
Isopropylbenzene	ND	1.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"	
Methylene chloride	ND	1.0	"	"	"	"	"	"	
Naphthalene	ND	1.0	"	"	"	"	"	"	
n-Propylbenzene	ND	1.0	"	"	"	"	"	"	
Styrene	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
Tetrachloroethene	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"	
Trichloroethene	ND	1.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
Vinyl chloride	ND	1.0	"	"	"	"	"	"	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
m,p-Xylene	ND	1.0	"	"	"	"	"	"	
o-Xylene	ND	0.50	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"	

SunStar Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Murex 15375 Barranca Parkway, Suite K-101 Irvine CA, 92861	Project: Cenco Project Number: 1003-001-300 Project Manager: Jeremy Squire	Reported: 08/30/12 14:06
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**LL_17A_082312_01
T121447-04 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Tert-butyl alcohol	12	10	ug/l	1	2082402	08/24/12	08/29/12	EPA 8260B
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"
Methyl tert-butyl ether	ND	1.0	"	"	"	"	"	"
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	5.0	"	"	"	"	"	"
Surrogate: 4-Bromofluorobenzene		94.1 %	83.5-119		"	"	"	"
Surrogate: Dibromofluoromethane		85.4 %	81-136		"	"	"	"
Surrogate: Toluene-d8		92.2 %	88.8-117		"	"	"	"

Murex 15375 Barranca Parkway, Suite K-101 Irvine CA, 92861	Project: Cenco Project Number: 1003-001-300 Project Manager: Jeremy Squire	Reported: 08/30/12 14:06
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LL_17B_082312_01
T121447-05 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Purgeable Petroleum Hydrocarbons by EPA 8015C

C6-C12 (GRO)	ND	50	ug/l	1	2082403	08/24/12	08/27/12	EPA 8015C	
Surrogate: 4-Bromofluorobenzene		110 %	72.6-146		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	1.0	ug/l	1	2082402	08/24/12	08/29/12	EPA 8260B	
Bromochloromethane	ND	1.0	"	"	"	"	"	"	
Bromodichloromethane	ND	1.0	"	"	"	"	"	"	
Bromoform	ND	1.0	"	"	"	"	"	"	
Bromomethane	ND	1.0	"	"	"	"	"	"	
n-Butylbenzene	ND	1.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	1.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"	
Chlorobenzene	ND	1.0	"	"	"	"	"	"	
Chloroethane	ND	1.0	"	"	"	"	"	"	
Chloroform	ND	1.0	"	"	"	"	"	"	
Chloromethane	ND	1.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
Dibromochloromethane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"	
Dibromomethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	

SunStar Laboratories, Inc.

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Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
08/30/12 14:06

LL_17B_082312_01
T121447-05 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

1,2-Dichloropropane	ND	1.0	ug/l	1	2082402	08/24/12	08/29/12	EPA 8260B	
1,3-Dichloropropane	ND	1.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"	
Isopropylbenzene	ND	1.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"	
Methylene chloride	ND	1.0	"	"	"	"	"	"	
Naphthalene	ND	1.0	"	"	"	"	"	"	
n-Propylbenzene	ND	1.0	"	"	"	"	"	"	
Styrene	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
Tetrachloroethene	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"	
Trichloroethene	ND	1.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
Vinyl chloride	ND	1.0	"	"	"	"	"	"	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
m,p-Xylene	ND	1.0	"	"	"	"	"	"	
o-Xylene	ND	0.50	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"	

SunStar Laboratories, Inc.

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Murex 15375 Barranca Parkway, Suite K-101 Irvine CA, 92861	Project: Cenco Project Number: 1003-001-300 Project Manager: Jeremy Squire	Reported: 08/30/12 14:06
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**LL_17B_082312_01
T121447-05 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Tert-butyl alcohol	ND	10	ug/l	1	2082402	08/24/12	08/29/12	EPA 8260B
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"
Methyl tert-butyl ether	ND	1.0	"	"	"	"	"	"
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	5.0	"	"	"	"	"	"
<i>Surrogate: 4-Bromofluorobenzene</i>		<i>90.9 %</i>	<i>83.5-119</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>
<i>Surrogate: Dibromofluoromethane</i>		<i>82.8 %</i>	<i>81-136</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>
<i>Surrogate: Toluene-d8</i>		<i>95.1 %</i>	<i>88.8-117</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>

Murex 15375 Barranca Parkway, Suite K-101 Irvine CA, 92861	Project: Cenco Project Number: 1003-001-300 Project Manager: Jeremy Squire	Reported: 08/30/12 14:06
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LL_17C_082312_01
T121447-06 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Purgeable Petroleum Hydrocarbons by EPA 8015C

C6-C12 (GRO)	ND	50	ug/l	1	2082403	08/24/12	08/27/12	EPA 8015C	
Surrogate: 4-Bromofluorobenzene		97.3 %	72.6-146		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	1.0	ug/l	1	2082402	08/24/12	08/29/12	EPA 8260B	
Bromochloromethane	ND	1.0	"	"	"	"	"	"	
Bromodichloromethane	ND	1.0	"	"	"	"	"	"	
Bromoform	ND	1.0	"	"	"	"	"	"	
Bromomethane	ND	1.0	"	"	"	"	"	"	
n-Butylbenzene	ND	1.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	1.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"	
Chlorobenzene	ND	1.0	"	"	"	"	"	"	
Chloroethane	ND	1.0	"	"	"	"	"	"	
Chloroform	ND	1.0	"	"	"	"	"	"	
Chloromethane	ND	1.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
Dibromochloromethane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"	
Dibromomethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	

SunStar Laboratories, Inc.

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Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
08/30/12 14:06

LL_17C_082312_01
T121447-06 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

1,2-Dichloropropane	ND	1.0	ug/l	1	2082402	08/24/12	08/29/12	EPA 8260B	
1,3-Dichloropropane	ND	1.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"	
Isopropylbenzene	ND	1.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"	
Methylene chloride	ND	1.0	"	"	"	"	"	"	
Naphthalene	ND	1.0	"	"	"	"	"	"	
n-Propylbenzene	ND	1.0	"	"	"	"	"	"	
Styrene	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
Tetrachloroethene	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"	
Trichloroethene	ND	1.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
Vinyl chloride	ND	1.0	"	"	"	"	"	"	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
m,p-Xylene	ND	1.0	"	"	"	"	"	"	
o-Xylene	ND	0.50	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"	

SunStar Laboratories, Inc.

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Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
08/30/12 14:06

**LL_17C_082312_01
T121447-06 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Tert-butyl alcohol	ND	10	ug/l	1	2082402	08/24/12	08/29/12	EPA 8260B
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"
Methyl tert-butyl ether	ND	1.0	"	"	"	"	"	"
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	5.0	"	"	"	"	"	"
<i>Surrogate: 4-Bromofluorobenzene</i>		<i>93.4 %</i>		<i>83.5-119</i>		<i>"</i>	<i>"</i>	<i>"</i>
<i>Surrogate: Dibromofluoromethane</i>		<i>85.9 %</i>		<i>81-136</i>		<i>"</i>	<i>"</i>	<i>"</i>
<i>Surrogate: Toluene-d8</i>		<i>95.8 %</i>		<i>88.8-117</i>		<i>"</i>	<i>"</i>	<i>"</i>

Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
08/30/12 14:06

LL_TB_082312_01
T121447-07 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	1.0	ug/l	1	2082709	08/27/12	08/28/12	EPA 8260B
Bromochloromethane	ND	1.0	"	"	"	"	"	"
Bromodichloromethane	ND	1.0	"	"	"	"	"	"
Bromoform	ND	1.0	"	"	"	"	"	"
Bromomethane	ND	1.0	"	"	"	"	"	"
n-Butylbenzene	ND	1.0	"	"	"	"	"	"
sec-Butylbenzene	ND	1.0	"	"	"	"	"	"
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"
Chlorobenzene	ND	1.0	"	"	"	"	"	"
Chloroethane	ND	1.0	"	"	"	"	"	"
Chloroform	ND	1.0	"	"	"	"	"	"
Chloromethane	ND	1.0	"	"	"	"	"	"
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"
Dibromochloromethane	ND	1.0	"	"	"	"	"	"
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"
Dibromomethane	ND	1.0	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"
cis-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"
1,2-Dichloropropane	ND	1.0	"	"	"	"	"	"
1,3-Dichloropropane	ND	1.0	"	"	"	"	"	"
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"

SunStar Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
08/30/12 14:06

LL_TB_082312_01
T121447-07 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

cis-1,3-Dichloropropene	ND	0.50	ug/l	1	2082709	08/27/12	08/28/12	EPA 8260B
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"
Isopropylbenzene	ND	1.0	"	"	"	"	"	"
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"
Methylene chloride	ND	1.0	"	"	"	"	"	"
Naphthalene	ND	1.0	"	"	"	"	"	"
n-Propylbenzene	ND	1.0	"	"	"	"	"	"
Styrene	ND	1.0	"	"	"	"	"	"
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"
Tetrachloroethene	ND	1.0	"	"	"	"	"	"
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"
Trichloroethene	ND	1.0	"	"	"	"	"	"
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"
Vinyl chloride	ND	1.0	"	"	"	"	"	"
Benzene	ND	0.50	"	"	"	"	"	"
Toluene	ND	0.50	"	"	"	"	"	"
Ethylbenzene	ND	0.50	"	"	"	"	"	"
m,p-Xylene	ND	1.0	"	"	"	"	"	"
o-Xylene	ND	0.50	"	"	"	"	"	"
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"
Tert-butyl alcohol	ND	10	"	"	"	"	"	"
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"
Methyl tert-butyl ether	ND	1.0	"	"	"	"	"	"

SunStar Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Murex 15375 Barranca Parkway, Suite K-101 Irvine CA, 92861	Project: Cenco Project Number: 1003-001-300 Project Manager: Jeremy Squire	Reported: 08/30/12 14:06
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**LL_TB_082312_01
T121447-07 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	5.0	ug/l	1	2082709	08/27/12	08/28/12	EPA 8260B	
Surrogate: 4-Bromofluorobenzene	90.5 %	83.5-119			"	"	"	"	
Surrogate: Dibromofluoromethane	102 %	81-136			"	"	"	"	
Surrogate: Toluene-d8	80.8 %	88.8-117			"	"	"	"	S-GC

Murex 15375 Barranca Parkway, Suite K-101 Irvine CA, 92861	Project: Cenco Project Number: 1003-001-300 Project Manager: Jeremy Squire	Reported: 08/30/12 14:06
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Purgeable Petroleum Hydrocarbons by EPA 8015C - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2082403 - EPA 5030 GC

Blank (2082403-BLK1)

Prepared: 08/24/12 Analyzed: 08/27/12

C6-C12 (GRO)	ND	50	ug/l							
Surrogate 4-Bromofluorobenzene	98.5		"	100		98.5	72.6-146			

LCS (2082403-BS1)

Prepared: 08/24/12 Analyzed: 08/27/12

C6-C12 (GRO)	5640	50	ug/l	5500		103	75-125			
Surrogate 4-Bromofluorobenzene	124		"	100		124	72.6-146			

Matrix Spike (2082403-MS1)

Source: T121447-04

Prepared: 08/24/12 Analyzed: 08/27/12

C6-C12 (GRO)	5170	50	ug/l	5500	43.1	93.2	65-135			
Surrogate 4-Bromofluorobenzene	110		"	100		110	72.6-146			

Matrix Spike Dup (2082403-MSD1)

Source: T121447-04

Prepared: 08/24/12 Analyzed: 08/27/12

C6-C12 (GRO)	5280	50	ug/l	5500	43.1	95.1	65-135	2.06	20	
Surrogate 4-Bromofluorobenzene	119		"	100		119	72.6-146			

Murex 15375 Barranca Parkway, Suite K-101 Irvine CA, 92861	Project: Cenco Project Number: 1003-001-300 Project Manager: Jeremy Squire	Reported: 08/30/12 14:06
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Volatile Organic Compounds by EPA Method 8260B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2082402 - EPA 5030 GCMS

Blank (2082402-BLK1)

Prepared: 08/24/12 Analyzed: 08/28/12

Bromobenzene	ND	1.0	ug/l
Bromochloromethane	ND	1.0	"
Bromodichloromethane	ND	1.0	"
Bromoform	ND	1.0	"
Bromomethane	ND	1.0	"
n-Butylbenzene	ND	1.0	"
sec-Butylbenzene	ND	1.0	"
tert-Butylbenzene	ND	1.0	"
Carbon tetrachloride	ND	0.50	"
Chlorobenzene	ND	1.0	"
Chloroethane	ND	1.0	"
Chloroform	ND	1.0	"
Chloromethane	ND	1.0	"
2-Chlorotoluene	ND	1.0	"
4-Chlorotoluene	ND	1.0	"
Dibromochloromethane	ND	1.0	"
1,2-Dibromo-3-chloropropane	ND	1.0	"
1,2-Dibromoethane (EDB)	ND	1.0	"
Dibromomethane	ND	1.0	"
1,2-Dichlorobenzene	ND	1.0	"
1,3-Dichlorobenzene	ND	1.0	"
1,4-Dichlorobenzene	ND	1.0	"
Dichlorodifluoromethane	ND	0.50	"
1,1-Dichloroethane	ND	1.0	"
1,2-Dichloroethane	ND	0.50	"
1,1-Dichloroethene	ND	1.0	"
cis-1,2-Dichloroethene	ND	1.0	"
trans-1,2-Dichloroethene	ND	1.0	"
1,2-Dichloropropane	ND	1.0	"
1,3-Dichloropropane	ND	1.0	"
2,2-Dichloropropane	ND	1.0	"
1,1-Dichloropropene	ND	1.0	"
cis-1,3-Dichloropropene	ND	0.50	"
trans-1,3-Dichloropropene	ND	0.50	"
Hexachlorobutadiene	ND	1.0	"
Isopropylbenzene	ND	1.0	"

SunStar Laboratories, Inc.

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Murex 15375 Barranca Parkway, Suite K-101 Irvine CA, 92861	Project: Cenco Project Number: 1003-001-300 Project Manager: Jeremy Squire	Reported: 08/30/12 14:06
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Volatile Organic Compounds by EPA Method 8260B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2082402 - EPA 5030 GCMS

Blank (2082402-BLK1)

Prepared: 08/24/12 Analyzed: 08/28/12

p-Isopropyltoluene	ND	1.0	ug/l							
Methylene chloride	ND	1.0	"							
Naphthalene	ND	1.0	"							
n-Propylbenzene	ND	1.0	"							
Styrene	ND	1.0	"							
1,1,2,2-Tetrachloroethane	ND	1.0	"							
1,1,1,2-Tetrachloroethane	ND	1.0	"							
Tetrachloroethene	ND	1.0	"							
1,2,3-Trichlorobenzene	ND	1.0	"							
1,2,4-Trichlorobenzene	ND	1.0	"							
1,1,2-Trichloroethane	ND	1.0	"							
1,1,1-Trichloroethane	ND	1.0	"							
Trichloroethene	ND	1.0	"							
Trichlorofluoromethane	ND	1.0	"							
1,2,3-Trichloropropane	ND	1.0	"							
1,3,5-Trimethylbenzene	ND	1.0	"							
1,2,4-Trimethylbenzene	ND	1.0	"							
Vinyl chloride	ND	1.0	"							
Benzene	ND	0.50	"							
Toluene	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
m,p-Xylene	ND	1.0	"							
o-Xylene	ND	0.50	"							
Tert-amyl methyl ether	ND	2.0	"							
Tert-butyl alcohol	ND	10	"							
Di-isopropyl ether	ND	2.0	"							
Ethyl tert-butyl ether	ND	2.0	"							
Methyl tert-butyl ether	ND	1.0	"							
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	5.0	"							
Surrogate 4-Bromofluorobenzene	7.51		"	8.00		93.9	83.5-119			
Surrogate Dibromofluoromethane	6.78		"	8.00		84.8	81-136			
Surrogate Toluene-d8	7.20		"	8.00		90.0	88.8-117			

SunStar Laboratories, Inc.

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Murex 15375 Barranca Parkway, Suite K-101 Irvine CA, 92861	Project: Cenco Project Number: 1003-001-300 Project Manager: Jeremy Squire	Reported: 08/30/12 14:06
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Volatile Organic Compounds by EPA Method 8260B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2082402 - EPA 5030 GCMS

LCS (2082402-BS1)

Prepared: 08/24/12 Analyzed: 08/29/12

Chlorobenzene	16.3	1.0	ug/l	20.0		81.6	75-125			
1,1-Dichloroethene	17.5	1.0	"	20.0		87.4	75-125			
Trichloroethene	16.7	1.0	"	20.0		83.6	75-125			
Benzene	16.5	0.50	"	20.0		82.3	75-125			
Toluene	17.6	0.50	"	20.0		88.0	75-125			
<i>Surrogate 4-Bromofluorobenzene</i>	<i>7.51</i>		<i>"</i>	<i>8.00</i>		<i>93.9</i>	<i>83.5-119</i>			
<i>Surrogate Dibromofluoromethane</i>	<i>8.93</i>		<i>"</i>	<i>8.00</i>		<i>112</i>	<i>81-136</i>			
<i>Surrogate Toluene-d8</i>	<i>8.27</i>		<i>"</i>	<i>8.00</i>		<i>103</i>	<i>88.8-117</i>			

LCS Dup (2082402-BSD1)

Prepared: 08/24/12 Analyzed: 08/29/12

Chlorobenzene	17.1	1.0	ug/l	20.0		85.5	75-125	4.73	20	
1,1-Dichloroethene	17.3	1.0	"	20.0		86.6	75-125	0.862	20	
Trichloroethene	17.0	1.0	"	20.0		84.8	75-125	1.37	20	
Benzene	17.6	0.50	"	20.0		88.2	75-125	6.86	20	
Toluene	19.2	0.50	"	20.0		96.0	75-125	8.75	20	
<i>Surrogate 4-Bromofluorobenzene</i>	<i>7.40</i>		<i>"</i>	<i>8.00</i>		<i>92.5</i>	<i>83.5-119</i>			
<i>Surrogate Dibromofluoromethane</i>	<i>8.82</i>		<i>"</i>	<i>8.00</i>		<i>110</i>	<i>81-136</i>			
<i>Surrogate Toluene-d8</i>	<i>8.57</i>		<i>"</i>	<i>8.00</i>		<i>107</i>	<i>88.8-117</i>			

Batch 2082709 - EPA 5030 GCMS

Blank (2082709-BLK1)

Prepared: 08/27/12 Analyzed: 08/28/12

Bromobenzene	ND	1.0	ug/l							
Bromochloromethane	ND	1.0	"							
Bromodichloromethane	ND	1.0	"							
Bromoform	ND	1.0	"							
Bromomethane	ND	1.0	"							
n-Butylbenzene	ND	1.0	"							
sec-Butylbenzene	ND	1.0	"							
tert-Butylbenzene	ND	1.0	"							
Carbon tetrachloride	ND	0.50	"							
Chlorobenzene	ND	1.0	"							
Chloroethane	ND	1.0	"							
Chloroform	ND	1.0	"							
Chloromethane	ND	1.0	"							
2-Chlorotoluene	ND	1.0	"							

SunStar Laboratories, Inc.

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Murex 15375 Barranca Parkway, Suite K-101 Irvine CA, 92861	Project: Cenco Project Number: 1003-001-300 Project Manager: Jeremy Squire	Reported: 08/30/12 14:06
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Volatile Organic Compounds by EPA Method 8260B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2082709 - EPA 5030 GCMS

Blank (2082709-BLK1)

Prepared: 08/27/12 Analyzed: 08/28/12

4-Chlorotoluene	ND	1.0	ug/l
Dibromochloromethane	ND	1.0	"
1,2-Dibromo-3-chloropropane	ND	1.0	"
1,2-Dibromoethane (EDB)	ND	1.0	"
Dibromomethane	ND	1.0	"
1,2-Dichlorobenzene	ND	1.0	"
1,3-Dichlorobenzene	ND	1.0	"
1,4-Dichlorobenzene	ND	1.0	"
Dichlorodifluoromethane	ND	0.50	"
1,1-Dichloroethane	ND	1.0	"
1,2-Dichloroethane	ND	0.50	"
1,1-Dichloroethene	ND	1.0	"
cis-1,2-Dichloroethene	ND	1.0	"
trans-1,2-Dichloroethene	ND	1.0	"
1,2-Dichloropropane	ND	1.0	"
1,3-Dichloropropane	ND	1.0	"
2,2-Dichloropropane	ND	1.0	"
1,1-Dichloropropene	ND	1.0	"
cis-1,3-Dichloropropene	ND	0.50	"
trans-1,3-Dichloropropene	ND	0.50	"
Hexachlorobutadiene	ND	1.0	"
Isopropylbenzene	ND	1.0	"
p-Isopropyltoluene	ND	1.0	"
Methylene chloride	ND	1.0	"
Naphthalene	ND	1.0	"
n-Propylbenzene	ND	1.0	"
Styrene	ND	1.0	"
1,1,2,2-Tetrachloroethane	ND	1.0	"
1,1,1,2-Tetrachloroethane	ND	1.0	"
Tetrachloroethene	ND	1.0	"
1,2,3-Trichlorobenzene	ND	1.0	"
1,2,4-Trichlorobenzene	ND	1.0	"
1,1,2-Trichloroethane	ND	1.0	"
1,1,1-Trichloroethane	ND	1.0	"
Trichloroethene	ND	1.0	"
Trichlorofluoromethane	ND	1.0	"

SunStar Laboratories, Inc.

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Murex 15375 Barranca Parkway, Suite K-101 Irvine CA, 92861	Project: Cenco Project Number: 1003-001-300 Project Manager: Jeremy Squire	Reported: 08/30/12 14:06
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Volatile Organic Compounds by EPA Method 8260B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2082709 - EPA 5030 GCMS

Blank (2082709-BLK1)

Prepared: 08/27/12 Analyzed: 08/28/12

1,2,3-Trichloropropane	ND	1.0	ug/l							
1,3,5-Trimethylbenzene	ND	1.0	"							
1,2,4-Trimethylbenzene	ND	1.0	"							
Vinyl chloride	ND	1.0	"							
Benzene	ND	0.50	"							
Toluene	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
m,p-Xylene	ND	1.0	"							
o-Xylene	ND	0.50	"							
Tert-amyl methyl ether	ND	2.0	"							
Tert-butyl alcohol	ND	10	"							
Di-isopropyl ether	ND	2.0	"							
Ethyl tert-butyl ether	ND	2.0	"							
Methyl tert-butyl ether	ND	1.0	"							
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	5.0	"							
Surrogate 4-Bromofluorobenzene	7.80		"	8.00		97.5	83.5-119			
Surrogate Dibromofluoromethane	3.80		"	8.00		47.5	81-136			S-GC
Surrogate Toluene-d8	6.57		"	8.00		82.1	88.8-117			S-GC

LCS (2082709-BS1)

Prepared: 08/27/12 Analyzed: 08/28/12

Chlorobenzene	16.2	1.0	ug/l	20.0		80.8	75-125			
1,1-Dichloroethene	17.6	1.0	"	20.0		88.0	75-125			
Trichloroethene	21.1	1.0	"	20.0		106	75-125			
Benzene	16.0	0.50	"	20.0		80.1	75-125			
Toluene	16.2	0.50	"	20.0		80.9	75-125			
Surrogate 4-Bromofluorobenzene	7.91		"	8.00		98.9	83.5-119			
Surrogate Dibromofluoromethane	8.29		"	8.00		104	81-136			
Surrogate Toluene-d8	8.21		"	8.00		103	88.8-117			

Murex 15375 Barranca Parkway, Suite K-101 Irvine CA, 92861	Project: Cenco Project Number: 1003-001-300 Project Manager: Jeremy Squire	Reported: 08/30/12 14:06
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Volatile Organic Compounds by EPA Method 8260B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2082709 - EPA 5030 GCMS

LCS Dup (2082709-BSD1)

Prepared: 08/27/12 Analyzed: 08/28/12

Chlorobenzene	16.0	1.0	ug/l	20.0		80.0	75-125	0.871	20	
1,1-Dichloroethene	15.2	1.0	"	20.0		76.1	75-125	14.4	20	
Trichloroethene	21.0	1.0	"	20.0		105	75-125	0.285	20	
Benzene	15.7	0.50	"	20.0		78.4	75-125	2.08	20	
Toluene	17.1	0.50	"	20.0		85.6	75-125	5.65	20	
Surrogate 4-Bromofluorobenzene	7.68		"	8.00		96.0	83.5-119			
Surrogate Dibromofluoromethane	8.03		"	8.00		100	81-136			
Surrogate Toluene-d8	8.10		"	8.00		101	88.8-117			

Murex 15375 Barranca Parkway, Suite K-101 Irvine CA, 92861	Project: Cenco Project Number: 1003-001-300 Project Manager: Jeremy Squire	Reported: 08/30/12 14:06
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Notes and Definitions

S-GC	Surrogate recovery outside of established control limits. The data was accepted based on valid recovery of the remaining surrogate(s).
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

SunStar Laboratories, Inc.
25712 Commercentre Dr
Lake Forest, CA 92630
949-297-5020

Chain of Custody Record

Client: MUREX ENVIRONMENTAL INC.
Address: 2640 Walnut Ave, Unit F
Phone: (714) 508-0800 Fax: (714) 508-0880
Project Manager: Jeremy Squire (714) 604-5836

Date: 8.23.2012

Page: 1 OF 1

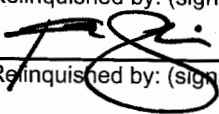
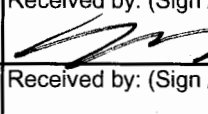
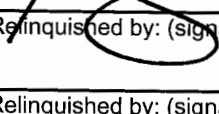
Project Name: CENCO

Collector: Frane Sosic

Client Project #: 1003-001-300

Batch #: 7121447

EDF #:

Sample ID	Date Sampled	Time	Sample Type	TPHg (8015 M)	VOCs (8260 B)	Total # of containers	Comments/Preservative	Laboratory ID #
LL-16A-082212-01	8-22-12	10:37	GW	X	X	6		01
LL-16B-082212-01	8-22-12	12:00	GW	X	X	6		02
LL-16C-082212-01	8-22-12	15:45	GW	X	X	6		03
LL-17A-082312-01	8-23-12	11:32	GW	X	X	6		04
LL-17B-082312-01	8-23-12	12:55	GW	X	X	6		05
LL-17C-082312-01	8-23-12	15:00	GW	X	X	6		06
LL-TB-082312			Water	X		2		07
<div> <div> Relinquished by: (signature)  </div> <div> Date / Time 8-23-12 1602 </div> </div> <div> <div> Received by: (Sign / Date / Time)  </div> <div> Date / Time 8-23-12 1602 </div> </div> <div> <div> Relinquished by: (signature)  </div> <div> Date / Time </div> </div> <div> <div> Received by: (Sign / Date / Time) </div> <div> Date / Time </div> </div> <div> <div> Relinquished by: (signature) </div> <div> Date / Time </div> </div> <div> <div> Received by: (Sign / Date / Time) </div> <div> Date / Time </div> </div>								

Total # of containers

Chain of Custody seals

Seals intact? Y/N/NA

Received good condition/cold

Turn around time: Standard

Notes

26

Sample disposal Instructions: Disposal @ \$2.00 each _____ Return to client _____ Pickup _____

SAMPLE RECEIVING REVIEW SHEET

BATCH # T121447

Client Name: Murex

Project: Cenco

Received by: Dan M

Date/Time Received: 8/23/12 1602

Delivered by: ☐ Client ☒ SunStar Courier ☐ GSO ☐ FedEx ☐ Other _____

Total number of coolers received 1

Temp criteria = 6°C > 0°C (no frozen containers)

Temperature: cooler #1 2.2 °C +/- the CF (-0.2°C) = 2.0 °C corrected temperature

cooler #2 _____ °C +/- the CF (-0.2°C) = _____ °C corrected temperature

cooler #3 _____ °C +/- the CF (-0.2°C) = _____ °C corrected temperature

Samples outside temp. but received on ice, w/in 6 hours of final sampling. ☒ Yes ☐ No* ☐ N/A

Custody Seals Intact on Cooler/Sample ☐ Yes ☐ No* ☒ N/A

Sample Containers Intact ☒ Yes ☐ No*

Sample labels match COC ID's ☒ Yes ☐ No*

Total number of containers received match COC ☒ Yes ☐ No*

Proper containers received for analyses requested on COC ☒ Yes ☐ No*

Proper preservative indicated on COC/containers for analyses requested ☒ Yes ☐ No* ☐ N/A

Complete shipment received in good condition with correct temperatures, containers, labels, volumes preservatives and within method specified holding times. ☒ Yes ☐ No*

* Complete Non-Conformance Receiving Sheet if checked

Cooler/Sample Review - Initials and date

[Signature] 8/23/12

Comments:



25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

31 August 2012

Jeremy Squire
Murex
15375 Barranca Parkway, Suite K-101
Irvine, CA 92861
RE: Cenco

Enclosed are the results of analyses for samples received by the laboratory on 08/27/12 16:09. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Katherine Shields For Wendy Hsiao
Project Manager

Murex 15375 Barranca Parkway, Suite K-101 Irvine CA, 92861	Project: Cenco Project Number: 1003-001-300 Project Manager: Jeremy Squire	Reported: 08/31/12 15:34
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ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
LL_107A_082412_01	T121471-01	Water	08/24/12 15:23	08/27/12 16:09
LL_106A_082412_01	T121471-02	Water	08/24/12 16:30	08/27/12 16:09
LL_W4_082712_01	T121471-03	Water	08/27/12 12:30	08/27/12 16:09
LL_W1_082712_01	T121471-04	Water	08/27/12 14:38	08/27/12 16:09
LL_104A_082712_01	T121471-05	Water	08/27/12 15:53	08/27/12 16:09
LL_TB_082712	T121471-06	Water	08/27/12 00:00	08/27/12 16:09

Murex 15375 Barranca Parkway, Suite K-101 Irvine CA, 92861	Project: Cenco Project Number: 1003-001-300 Project Manager: Jeremy Squire	Reported: 08/31/12 15:34
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LL_107A_082412_01

T121471-01 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Purgeable Petroleum Hydrocarbons by EPA 8015C

C6-C12 (GRO)	720	50	ug/l	1	2082822	08/28/12	08/29/12	EPA 8015C	
Surrogate: 4-Bromofluorobenzene		115 %	72.6-146		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	1.0	ug/l	1	2083023	08/30/12	08/30/12	EPA 8260B	
Bromochloromethane	ND	1.0	"	"	"	"	"	"	
Bromodichloromethane	ND	1.0	"	"	"	"	"	"	
Bromoform	ND	1.0	"	"	"	"	"	"	
Bromomethane	ND	1.0	"	"	"	"	"	"	
n-Butylbenzene	ND	1.0	"	"	"	"	"	"	
sec-Butylbenzene	1.9	1.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"	
Chlorobenzene	ND	1.0	"	"	"	"	"	"	
Chloroethane	ND	1.0	"	"	"	"	"	"	
Chloroform	ND	1.0	"	"	"	"	"	"	
Chloromethane	ND	1.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
Dibromochloromethane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"	
Dibromomethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	3.4	1.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	1.8	1.0	"	"	"	"	"	"	

SunStar Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
08/31/12 15:34

LL_107A_082412_01
T121471-01 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

1,2-Dichloropropane	ND	1.0	ug/l	1	2083023	08/30/12	08/30/12	EPA 8260B
1,3-Dichloropropane	ND	1.0	"	"	"	"	"	"
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"
Isopropylbenzene	10	1.0	"	"	"	"	"	"
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"
Methylene chloride	ND	1.0	"	"	"	"	"	"
Naphthalene	ND	1.0	"	"	"	"	"	"
n-Propylbenzene	5.7	1.0	"	"	"	"	"	"
Styrene	ND	1.0	"	"	"	"	"	"
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"
Tetrachloroethene	ND	1.0	"	"	"	"	"	"
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"
Trichloroethene	2.5	1.0	"	"	"	"	"	"
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"
Vinyl chloride	ND	1.0	"	"	"	"	"	"
Benzene	1.0	0.50	"	"	"	"	"	"
Toluene	ND	0.50	"	"	"	"	"	"
Ethylbenzene	ND	0.50	"	"	"	"	"	"
m,p-Xylene	ND	1.0	"	"	"	"	"	"
o-Xylene	ND	0.50	"	"	"	"	"	"
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"

SunStar Laboratories, Inc.

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Murex 15375 Barranca Parkway, Suite K-101 Irvine CA, 92861	Project: Cenco Project Number: 1003-001-300 Project Manager: Jeremy Squire	Reported: 08/31/12 15:34
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**LL_107A_082412_01
T121471-01 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Tert-butyl alcohol	11	10	ug/l	1	2083023	08/30/12	08/30/12	EPA 8260B	
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	1.0	"	"	"	"	"	"	
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	5.0	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		98.2 %	83.5-119		"	"	"	"	
Surrogate: Dibromofluoromethane		95.9 %	81-136		"	"	"	"	
Surrogate: Toluene-d8		106 %	88.8-117		"	"	"	"	

Murex 15375 Barranca Parkway, Suite K-101 Irvine CA, 92861	Project: Cenco Project Number: 1003-001-300 Project Manager: Jeremy Squire	Reported: 08/31/12 15:34
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LL_106A_082412_01
T121471-02 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Purgeable Petroleum Hydrocarbons by EPA 8015C

C6-C12 (GRO)	470	50	ug/l	1	2082822	08/28/12	08/29/12	EPA 8015C	
Surrogate: 4-Bromofluorobenzene	126 %	72.6-146	"	"	"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	1.0	ug/l	1	2083023	08/30/12	08/30/12	EPA 8260B	
Bromochloromethane	ND	1.0	"	"	"	"	"	"	
Bromodichloromethane	ND	1.0	"	"	"	"	"	"	
Bromoform	ND	1.0	"	"	"	"	"	"	
Bromomethane	ND	1.0	"	"	"	"	"	"	
n-Butylbenzene	ND	1.0	"	"	"	"	"	"	
sec-Butylbenzene	2.8	1.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"	
Chlorobenzene	ND	1.0	"	"	"	"	"	"	
Chloroethane	ND	1.0	"	"	"	"	"	"	
Chloroform	ND	1.0	"	"	"	"	"	"	
Chloromethane	ND	1.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
Dibromochloromethane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"	
Dibromomethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	

SunStar Laboratories, Inc.

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Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
08/31/12 15:34

LL_106A_082412_01
T121471-02 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

1,3-Dichloropropane	ND	1.0	ug/l	1	2083023	08/30/12	08/30/12	EPA 8260B
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"
Isopropylbenzene	17	1.0	"	"	"	"	"	"
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"
Methylene chloride	ND	1.0	"	"	"	"	"	"
Naphthalene	ND	1.0	"	"	"	"	"	"
n-Propylbenzene	12	1.0	"	"	"	"	"	"
Styrene	ND	1.0	"	"	"	"	"	"
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"
Tetrachloroethene	ND	1.0	"	"	"	"	"	"
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"
Trichloroethene	ND	1.0	"	"	"	"	"	"
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"
Vinyl chloride	11	1.0	"	"	"	"	"	"
Benzene	4.8	0.50	"	"	"	"	"	"
Toluene	ND	0.50	"	"	"	"	"	"
Ethylbenzene	ND	0.50	"	"	"	"	"	"
m,p-Xylene	ND	1.0	"	"	"	"	"	"
o-Xylene	ND	0.50	"	"	"	"	"	"
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"
Tert-butyl alcohol	ND	10	"	"	"	"	"	"

SunStar Laboratories, Inc.

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Murex 15375 Barranca Parkway, Suite K-101 Irvine CA, 92861	Project: Cenco Project Number: 1003-001-300 Project Manager: Jeremy Squire	Reported: 08/31/12 15:34
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LL_106A_082412_01
T121471-02 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Di-isopropyl ether	ND	2.0	ug/l	1	2083023	08/30/12	08/30/12	EPA 8260B
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"
Methyl tert-butyl ether	ND	1.0	"	"	"	"	"	"
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	5.0	"	"	"	"	"	"
<i>Surrogate: 4-Bromofluorobenzene</i>		<i>101 %</i>	<i>83.5-119</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>
<i>Surrogate: Dibromofluoromethane</i>		<i>96.1 %</i>	<i>81-136</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>
<i>Surrogate: Toluene-d8</i>		<i>103 %</i>	<i>88.8-117</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>

Murex 15375 Barranca Parkway, Suite K-101 Irvine CA, 92861	Project: Cenco Project Number: 1003-001-300 Project Manager: Jeremy Squire	Reported: 08/31/12 15:34
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LL_W4_082712_01
T121471-03 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Purgeable Petroleum Hydrocarbons by EPA 8015C

C6-C12 (GRO)	910	50	ug/l	1	2082822	08/28/12	08/29/12	EPA 8015C	
Surrogate: 4-Bromofluorobenzene		113 %	72.6-146		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	1.0	ug/l	1	2083023	08/30/12	08/30/12	EPA 8260B	
Bromochloromethane	ND	1.0	"	"	"	"	"	"	
Bromodichloromethane	ND	1.0	"	"	"	"	"	"	
Bromoform	ND	1.0	"	"	"	"	"	"	
Bromomethane	ND	1.0	"	"	"	"	"	"	
n-Butylbenzene	ND	1.0	"	"	"	"	"	"	
sec-Butylbenzene	1.1	1.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"	
Chlorobenzene	ND	1.0	"	"	"	"	"	"	
Chloroethane	ND	1.0	"	"	"	"	"	"	
Chloroform	ND	1.0	"	"	"	"	"	"	
Chloromethane	ND	1.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
Dibromochloromethane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"	
Dibromomethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	

SunStar Laboratories, Inc.

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Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
08/31/12 15:34

LL_W4_082712_01
T121471-03 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

1,3-Dichloropropane	ND	1.0	ug/l	1	2083023	08/30/12	08/30/12	EPA 8260B
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"
Isopropylbenzene	11	1.0	"	"	"	"	"	"
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"
Methylene chloride	ND	1.0	"	"	"	"	"	"
Naphthalene	ND	1.0	"	"	"	"	"	"
n-Propylbenzene	4.6	1.0	"	"	"	"	"	"
Styrene	ND	1.0	"	"	"	"	"	"
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"
Tetrachloroethene	ND	1.0	"	"	"	"	"	"
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"
Trichloroethene	ND	1.0	"	"	"	"	"	"
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"
Vinyl chloride	2.8	1.0	"	"	"	"	"	"
Benzene	ND	0.50	"	"	"	"	"	"
Toluene	ND	0.50	"	"	"	"	"	"
Ethylbenzene	ND	0.50	"	"	"	"	"	"
m,p-Xylene	ND	1.0	"	"	"	"	"	"
o-Xylene	ND	0.50	"	"	"	"	"	"
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"
Tert-butyl alcohol	24	10	"	"	"	"	"	"

SunStar Laboratories, Inc.

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Murex 15375 Barranca Parkway, Suite K-101 Irvine CA, 92861	Project: Cenco Project Number: 1003-001-300 Project Manager: Jeremy Squire	Reported: 08/31/12 15:34
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LL_W4_082712_01
T121471-03 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Di-isopropyl ether	ND	2.0	ug/l	1	2083023	08/30/12	08/30/12	EPA 8260B	
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	
Methyl tert-butyl ether	1.9	1.0	"	"	"	"	"	"	
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	5.0	"	"	"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		<i>101 %</i>	<i>83.5-119</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	
<i>Surrogate: Dibromofluoromethane</i>		<i>87.5 %</i>	<i>81-136</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	
<i>Surrogate: Toluene-d8</i>		<i>101 %</i>	<i>88.8-117</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	

Murex 15375 Barranca Parkway, Suite K-101 Irvine CA, 92861	Project: Cenco Project Number: 1003-001-300 Project Manager: Jeremy Squire	Reported: 08/31/12 15:34
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LL_W1_082712_01
T121471-04 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Purgeable Petroleum Hydrocarbons by EPA 8015C

C6-C12 (GRO)	180	50	ug/l	1	2082822	08/28/12	08/29/12	EPA 8015C	
Surrogate: 4-Bromofluorobenzene	111 %	72.6-146	"	"	"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	1.0	ug/l	1	2083023	08/30/12	08/30/12	EPA 8260B	
Bromochloromethane	ND	1.0	"	"	"	"	"	"	
Bromodichloromethane	ND	1.0	"	"	"	"	"	"	
Bromoform	ND	1.0	"	"	"	"	"	"	
Bromomethane	ND	1.0	"	"	"	"	"	"	
n-Butylbenzene	ND	1.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	1.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"	
Chlorobenzene	ND	1.0	"	"	"	"	"	"	
Chloroethane	ND	1.0	"	"	"	"	"	"	
Chloroform	ND	1.0	"	"	"	"	"	"	
Chloromethane	ND	1.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
Dibromochloromethane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"	
Dibromomethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	

SunStar Laboratories, Inc.

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Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
08/31/12 15:34

LL_W1_082712_01
T121471-04 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

1,2-Dichloropropane	ND	1.0	ug/l	1	2083023	08/30/12	08/30/12	EPA 8260B	
1,3-Dichloropropane	ND	1.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"	
Isopropylbenzene	ND	1.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"	
Methylene chloride	ND	1.0	"	"	"	"	"	"	
Naphthalene	ND	1.0	"	"	"	"	"	"	
n-Propylbenzene	ND	1.0	"	"	"	"	"	"	
Styrene	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
Tetrachloroethene	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"	
Trichloroethene	ND	1.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
Vinyl chloride	ND	1.0	"	"	"	"	"	"	
Benzene	9.1	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
m,p-Xylene	ND	1.0	"	"	"	"	"	"	
o-Xylene	ND	0.50	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"	

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Murex 15375 Barranca Parkway, Suite K-101 Irvine CA, 92861	Project: Cenco Project Number: 1003-001-300 Project Manager: Jeremy Squire	Reported: 08/31/12 15:34
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**LL_W1_082712_01
T121471-04 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Tert-butyl alcohol	ND	10	ug/l	1	2083023	08/30/12	08/30/12	EPA 8260B
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"
Methyl tert-butyl ether	ND	1.0	"	"	"	"	"	"
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	5.0	"	"	"	"	"	"
<i>Surrogate: 4-Bromofluorobenzene</i>		<i>98.1 %</i>	<i>83.5-119</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>
<i>Surrogate: Dibromofluoromethane</i>		<i>88.8 %</i>	<i>81-136</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>
<i>Surrogate: Toluene-d8</i>		<i>98.4 %</i>	<i>88.8-117</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>

Murex 15375 Barranca Parkway, Suite K-101 Irvine CA, 92861	Project: Cenco Project Number: 1003-001-300 Project Manager: Jeremy Squire	Reported: 08/31/12 15:34
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LL_104A_082712_01
T121471-05 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Purgeable Petroleum Hydrocarbons by EPA 8015C

C6-C12 (GRO)	ND	50	ug/l	1	2082822	08/28/12	08/29/12	EPA 8015C	
Surrogate: 4-Bromofluorobenzene		108 %	72.6-146		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	1.0	ug/l	1	2083023	08/30/12	08/30/12	EPA 8260B	
Bromochloromethane	ND	1.0	"	"	"	"	"	"	
Bromodichloromethane	ND	1.0	"	"	"	"	"	"	
Bromoform	ND	1.0	"	"	"	"	"	"	
Bromomethane	ND	1.0	"	"	"	"	"	"	
n-Butylbenzene	ND	1.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	1.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"	
Chlorobenzene	ND	1.0	"	"	"	"	"	"	
Chloroethane	ND	1.0	"	"	"	"	"	"	
Chloroform	ND	1.0	"	"	"	"	"	"	
Chloromethane	ND	1.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
Dibromochloromethane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"	
Dibromomethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	

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Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
08/31/12 15:34

LL_104A_082712_01
T121471-05 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

1,2-Dichloropropane	ND	1.0	ug/l	1	2083023	08/30/12	08/30/12	EPA 8260B
1,3-Dichloropropane	ND	1.0	"	"	"	"	"	"
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"
Isopropylbenzene	ND	1.0	"	"	"	"	"	"
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"
Methylene chloride	ND	1.0	"	"	"	"	"	"
Naphthalene	3.6	1.0	"	"	"	"	"	"
n-Propylbenzene	ND	1.0	"	"	"	"	"	"
Styrene	ND	1.0	"	"	"	"	"	"
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"
Tetrachloroethene	ND	1.0	"	"	"	"	"	"
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"
Trichloroethene	ND	1.0	"	"	"	"	"	"
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"
Vinyl chloride	ND	1.0	"	"	"	"	"	"
Benzene	ND	0.50	"	"	"	"	"	"
Toluene	ND	0.50	"	"	"	"	"	"
Ethylbenzene	ND	0.50	"	"	"	"	"	"
m,p-Xylene	ND	1.0	"	"	"	"	"	"
o-Xylene	ND	0.50	"	"	"	"	"	"
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"

SunStar Laboratories, Inc.

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Murex 15375 Barranca Parkway, Suite K-101 Irvine CA, 92861	Project: Cenco Project Number: 1003-001-300 Project Manager: Jeremy Squire	Reported: 08/31/12 15:34
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LL_104A_082712_01
T121471-05 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Tert-butyl alcohol	ND	10	ug/l	1	2083023	08/30/12	08/30/12	EPA 8260B
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"
Methyl tert-butyl ether	ND	1.0	"	"	"	"	"	"
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	5.0	"	"	"	"	"	"
<i>Surrogate: 4-Bromofluorobenzene</i>		98.2 %	83.5-119		"	"	"	"
<i>Surrogate: Dibromofluoromethane</i>		89.6 %	81-136		"	"	"	"
<i>Surrogate: Toluene-d8</i>		97.1 %	88.8-117		"	"	"	"

Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
08/31/12 15:34

LL_TB_082712
T121471-06 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	1.0	ug/l	1	2083023	08/30/12	08/30/12	EPA 8260B
Bromochloromethane	ND	1.0	"	"	"	"	"	"
Bromodichloromethane	ND	1.0	"	"	"	"	"	"
Bromoform	ND	1.0	"	"	"	"	"	"
Bromomethane	ND	1.0	"	"	"	"	"	"
n-Butylbenzene	ND	1.0	"	"	"	"	"	"
sec-Butylbenzene	ND	1.0	"	"	"	"	"	"
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"
Chlorobenzene	ND	1.0	"	"	"	"	"	"
Chloroethane	ND	1.0	"	"	"	"	"	"
Chloroform	ND	1.0	"	"	"	"	"	"
Chloromethane	ND	1.0	"	"	"	"	"	"
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"
Dibromochloromethane	ND	1.0	"	"	"	"	"	"
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"
Dibromomethane	ND	1.0	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"
cis-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"
1,2-Dichloropropane	ND	1.0	"	"	"	"	"	"
1,3-Dichloropropane	ND	1.0	"	"	"	"	"	"
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"

SunStar Laboratories, Inc.

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Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
08/31/12 15:34

LL_TB_082712
T121471-06 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

cis-1,3-Dichloropropene	ND	0.50	ug/l	1	2083023	08/30/12	08/30/12	EPA 8260B
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"
Isopropylbenzene	ND	1.0	"	"	"	"	"	"
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"
Methylene chloride	ND	1.0	"	"	"	"	"	"
Naphthalene	ND	1.0	"	"	"	"	"	"
n-Propylbenzene	ND	1.0	"	"	"	"	"	"
Styrene	ND	1.0	"	"	"	"	"	"
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"
Tetrachloroethene	ND	1.0	"	"	"	"	"	"
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"
Trichloroethene	ND	1.0	"	"	"	"	"	"
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"
Vinyl chloride	ND	1.0	"	"	"	"	"	"
Benzene	ND	0.50	"	"	"	"	"	"
Toluene	ND	0.50	"	"	"	"	"	"
Ethylbenzene	ND	0.50	"	"	"	"	"	"
m,p-Xylene	ND	1.0	"	"	"	"	"	"
o-Xylene	ND	0.50	"	"	"	"	"	"
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"
Tert-butyl alcohol	ND	10	"	"	"	"	"	"
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"
Methyl tert-butyl ether	ND	1.0	"	"	"	"	"	"

SunStar Laboratories, Inc.

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Murex 15375 Barranca Parkway, Suite K-101 Irvine CA, 92861	Project: Cenco Project Number: 1003-001-300 Project Manager: Jeremy Squire	Reported: 08/31/12 15:34
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**LL_TB_082712
T121471-06 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	5.0	ug/l	1	2083023	08/30/12	08/30/12	EPA 8260B	
Surrogate: 4-Bromofluorobenzene	92.2 %	83.5-119			"	"	"	"	
Surrogate: Dibromofluoromethane	88.0 %	81-136			"	"	"	"	
Surrogate: Toluene-d8	99.2 %	88.8-117			"	"	"	"	

Murex 15375 Barranca Parkway, Suite K-101 Irvine CA, 92861	Project: Cenco Project Number: 1003-001-300 Project Manager: Jeremy Squire	Reported: 08/31/12 15:34
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Purgeable Petroleum Hydrocarbons by EPA 8015C - Quality Control
SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2082822 - EPA 5030 GC										
Blank (2082822-BLK1)				Prepared: 08/28/12 Analyzed: 08/29/12						
C6-C12 (GRO)	ND	50	ug/l							
Surrogate 4-Bromofluorobenzene	108		"	100		108	72.6-146			
LCS (2082822-BS1)				Prepared: 08/28/12 Analyzed: 08/29/12						
C6-C12 (GRO)	5580	50	ug/l	5500		101	75-125			
Surrogate 4-Bromofluorobenzene	131		"	100		131	72.6-146			
Matrix Spike (2082822-MS1)				Source: T121471-01		Prepared: 08/28/12 Analyzed: 08/29/12				
C6-C12 (GRO)	6280	50	ug/l	5500	718	101	65-135			
Surrogate 4-Bromofluorobenzene	141		"	100		141	72.6-146			
Matrix Spike Dup (2082822-MSD1)				Source: T121471-01		Prepared: 08/28/12 Analyzed: 08/29/12				
C6-C12 (GRO)	5790	50	ug/l	5500	718	92.3	65-135	8.09	20	
Surrogate 4-Bromofluorobenzene	123		"	100		123	72.6-146			

Murex 15375 Barranca Parkway, Suite K-101 Irvine CA, 92861	Project: Cenco Project Number: 1003-001-300 Project Manager: Jeremy Squire	Reported: 08/31/12 15:34
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Volatile Organic Compounds by EPA Method 8260B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2083023 - EPA 5030 GCMS

Blank (2083023-BLK1)

Prepared & Analyzed: 08/30/12

Bromobenzene	ND	1.0	ug/l
Bromochloromethane	ND	1.0	"
Bromodichloromethane	ND	1.0	"
Bromoform	ND	1.0	"
Bromomethane	ND	1.0	"
n-Butylbenzene	ND	1.0	"
sec-Butylbenzene	ND	1.0	"
tert-Butylbenzene	ND	1.0	"
Carbon tetrachloride	ND	0.50	"
Chlorobenzene	ND	1.0	"
Chloroethane	ND	1.0	"
Chloroform	ND	1.0	"
Chloromethane	ND	1.0	"
2-Chlorotoluene	ND	1.0	"
4-Chlorotoluene	ND	1.0	"
Dibromochloromethane	ND	1.0	"
1,2-Dibromo-3-chloropropane	ND	1.0	"
1,2-Dibromoethane (EDB)	ND	1.0	"
Dibromomethane	ND	1.0	"
1,2-Dichlorobenzene	ND	1.0	"
1,3-Dichlorobenzene	ND	1.0	"
1,4-Dichlorobenzene	ND	1.0	"
Dichlorodifluoromethane	ND	0.50	"
1,1-Dichloroethane	ND	1.0	"
1,2-Dichloroethane	ND	0.50	"
1,1-Dichloroethene	ND	1.0	"
cis-1,2-Dichloroethene	ND	1.0	"
trans-1,2-Dichloroethene	ND	1.0	"
1,2-Dichloropropane	ND	1.0	"
1,3-Dichloropropane	ND	1.0	"
2,2-Dichloropropane	ND	1.0	"
1,1-Dichloropropene	ND	1.0	"
cis-1,3-Dichloropropene	ND	0.50	"
trans-1,3-Dichloropropene	ND	0.50	"
Hexachlorobutadiene	ND	1.0	"
Isopropylbenzene	ND	1.0	"

SunStar Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Murex 15375 Barranca Parkway, Suite K-101 Irvine CA, 92861	Project: Cenco Project Number: 1003-001-300 Project Manager: Jeremy Squire	Reported: 08/31/12 15:34
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Volatile Organic Compounds by EPA Method 8260B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2083023 - EPA 5030 GCMS

Blank (2083023-BLK1)

Prepared & Analyzed: 08/30/12

p-Isopropyltoluene	ND	1.0	ug/l							
Methylene chloride	ND	1.0	"							
Naphthalene	ND	1.0	"							
n-Propylbenzene	ND	1.0	"							
Styrene	ND	1.0	"							
1,1,2,2-Tetrachloroethane	ND	1.0	"							
1,1,1,2-Tetrachloroethane	ND	1.0	"							
Tetrachloroethene	ND	1.0	"							
1,2,3-Trichlorobenzene	ND	1.0	"							
1,2,4-Trichlorobenzene	ND	1.0	"							
1,1,2-Trichloroethane	ND	1.0	"							
1,1,1-Trichloroethane	ND	1.0	"							
Trichloroethene	ND	1.0	"							
Trichlorofluoromethane	ND	1.0	"							
1,2,3-Trichloropropane	ND	1.0	"							
1,3,5-Trimethylbenzene	ND	1.0	"							
1,2,4-Trimethylbenzene	ND	1.0	"							
Vinyl chloride	ND	1.0	"							
Benzene	ND	0.50	"							
Toluene	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
m,p-Xylene	ND	1.0	"							
o-Xylene	ND	0.50	"							
Tert-amyl methyl ether	ND	2.0	"							
Tert-butyl alcohol	ND	10	"							
Di-isopropyl ether	ND	2.0	"							
Ethyl tert-butyl ether	ND	2.0	"							
Methyl tert-butyl ether	ND	1.0	"							
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	5.0	"							
Surrogate 4-Bromofluorobenzene	7.03		"	8.00		87.9	83.5-119			
Surrogate Dibromofluoromethane	7.32		"	8.00		91.5	81-136			
Surrogate Toluene-d8	8.12		"	8.00		102	88.8-117			

SunStar Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Murex 15375 Barranca Parkway, Suite K-101 Irvine CA, 92861	Project: Cenco Project Number: 1003-001-300 Project Manager: Jeremy Squire	Reported: 08/31/12 15:34
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Volatile Organic Compounds by EPA Method 8260B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2083023 - EPA 5030 GCMS

LCS (2083023-BS1)

Prepared: 08/30/12 Analyzed: 08/31/12

Chlorobenzene	17.5	1.0	ug/l	20.0		87.4	75-125			
1,1-Dichloroethene	17.6	1.0	"	20.0		87.8	75-125			
Trichloroethene	17.8	1.0	"	20.0		89.2	75-125			
Benzene	17.2	0.50	"	20.0		86.2	75-125			
Toluene	17.6	0.50	"	20.0		88.0	75-125			
Surrogate 4-Bromofluorobenzene	7.62		"	8.00		95.2	83.5-119			
Surrogate Dibromofluoromethane	7.17		"	8.00		89.6	81-136			
Surrogate Toluene-d8	7.89		"	8.00		98.6	88.8-117			

Matrix Spike (2083023-MS1)

Source: T121471-05

Prepared: 08/30/12 Analyzed: 08/31/12

Chlorobenzene	17.6	1.0	ug/l	20.0	ND	87.8	75-125			
1,1-Dichloroethene	18.8	1.0	"	20.0	ND	93.9	75-125			
Trichloroethene	16.5	1.0	"	20.0	ND	82.4	75-125			
Benzene	17.8	0.50	"	20.0	ND	89.0	75-125			
Toluene	18.0	0.50	"	20.0	ND	90.2	75-125			
Surrogate 4-Bromofluorobenzene	7.68		"	8.00		96.0	83.5-119			
Surrogate Dibromofluoromethane	7.09		"	8.00		88.6	81-136			
Surrogate Toluene-d8	7.87		"	8.00		98.4	88.8-117			

Matrix Spike Dup (2083023-MSD1)

Source: T121471-05

Prepared: 08/30/12 Analyzed: 08/31/12

Chlorobenzene	18.0	1.0	ug/l	20.0	ND	90.2	75-125	2.75	20	
1,1-Dichloroethene	18.5	1.0	"	20.0	ND	92.6	75-125	1.39	20	
Trichloroethene	16.7	1.0	"	20.0	ND	83.4	75-125	1.15	20	
Benzene	17.8	0.50	"	20.0	ND	89.0	75-125	0.00	20	
Toluene	18.5	0.50	"	20.0	ND	92.4	75-125	2.46	20	
Surrogate 4-Bromofluorobenzene	7.52		"	8.00		94.0	83.5-119			
Surrogate Dibromofluoromethane	6.91		"	8.00		86.4	81-136			
Surrogate Toluene-d8	8.01		"	8.00		100	88.8-117			

Murex 15375 Barranca Parkway, Suite K-101 Irvine CA, 92861	Project: Cenco Project Number: 1003-001-300 Project Manager: Jeremy Squire	Reported: 08/31/12 15:34
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Notes and Definitions

DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

SunStar Laboratories, Inc.
25712 Commercentre Dr
Lake Forest, CA 92630
949-297-5020

Chain of Custody Record

Client: MUREX ENVIRONMENTAL INC.
Address: 2640 Walnut Ave, Unit F
Phone: (714) 508-0800 Fax: (714) 508-0880
Project Manager: Jeremy Squire (714) 604-5836

Date: 8.27.2012

Page: 1 OF 1

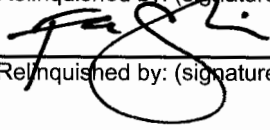
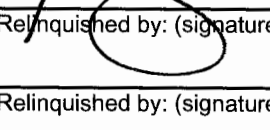
Project Name: CENCO

Collector: Frane Sosic

Client Project #: 1003-001-300

Batch #: T121471

EDF #: _____

Sample ID	Date Sampled	Time	Sample Type	TPHg (8015 M)	VOCs (8260 B)	Total # of containers	Comments/Preservative	Laboratory ID #
LL-107A-082412-01	8.24.12	1523	GW	X	X	6		01
LL-106A-082412-01	8.24.12	1630	GW	X	X	6		02
LL-W4-082712-01	8.27.12	1230	GW	X	X	6		03
LL-W1-082712-01	8.27.12	1438	GW	X	X	6		04
LL-104A-082712-01	8.27.12	1553	GW	X	X	6		05
LL-TB-082712			Water	X	X	2		06
<div> <div> Relinquished by: (signature)  </div> <div> Date / Time F. Sosic 8.27.12 1609 </div> </div> <div> <div> Relinquished by: (signature)  </div> <div> Date / Time </div> </div> <div> <div> Relinquished by: (signature) </div> <div> Date / Time </div> </div>								

Received by: (Sign / Date / Time)


Received by: (Sign / Date / Time)


Received by: (Sign / Date / Time)


Total # of containers
32

Chain of Custody seals
~

Seals intact? Y/N/NA
~N/A

Received good condition/cold
Y

Turn around time: Standard

Notes
4.4'

Sample disposal Instructions: Disposal @ \$2.00 each _____ Return to client _____ Pickup _____

SAMPLE RECEIVING REVIEW SHEET

BATCH # T121471

Client Name: Murex

Project: Cenco

Received by: Dan M

Date/Time Received: 8/27/12 1609

Delivered by : ☐ Client ☒ SunStar Courier ☐ GSO ☐ FedEx ☐ Other _____

Total number of coolers received 1 Temp criteria = 6°C > 0°C (no frozen containers)

Temperature: cooler #1 4.6 °C +/- the CF (- 0.2°C) = 4.4 °C corrected temperature

cooler #2 _____ °C +/- the CF (- 0.2°C) = _____ °C corrected temperature

cooler #3 _____ °C +/- the CF (- 0.2°C) = _____ °C corrected temperature

Samples outside temp. but received on ice, w/in 6 hours of final sampling. ☒ Yes ☐ No* ☐ N/A

Custody Seals Intact on Cooler/Sample ☐ Yes ☐ No* ☒ N/A

Sample Containers Intact ☒ Yes ☐ No*

Sample labels match COC ID's ☒ Yes ☐ No*


Total number of containers received match COC ☒ Yes ☐ No*

Proper containers received for analyses requested on COC ☒ Yes ☐ No*

Proper preservative indicated on COC/containers for analyses requested ☒ Yes ☐ No* ☐ N/A

Complete shipment received in good condition with correct temperatures, containers, labels, volumes preservatives and within method specified holding times. ☒ Yes ☐ No*

* Complete Non-Conformance Receiving Sheet if checked

Cooler/Sample Review - Initials and date  8/27/12

Comments:



25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

05 September 2012

Jeremy Squire
Murex
15375 Barranca Parkway, Suite K-101
Irvine, CA 92861
RE: Cenco

Enclosed are the results of analyses for samples received by the laboratory on 08/28/12 16:20. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Katherine Shields For Wendy Hsiao
Project Manager

Murex	Project: Cenco	Reported: 09/05/12 16:24
15375 Barranca Parkway, Suite K-101	Project Number: 1003-001-300	
Irvine CA, 92861	Project Manager: Jeremy Squire	

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
LL_W9_082812_01	T121487-01	Water	08/28/12 10:00	08/28/12 16:20
LL_W10_082812_01	T121487-02	Water	08/28/12 12:47	08/28/12 16:20
LL_W11_082812_01	T121487-03	Water	08/28/12 15:26	08/28/12 16:20
LL_TB_082812	T121487-04	Water	08/28/12 00:00	08/28/12 16:20

Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
09/05/12 16:24

LL_W9_082812_01

T121487-01 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Purgeable Petroleum Hydrocarbons by EPA 8015C

C6-C12 (GRO)	70	50	ug/l	1	2083109	08/31/12	09/05/12	EPA 8015C
Surrogate: 4-Bromofluorobenzene		110 %	72.6-146		"	"	"	"

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	1.0	ug/l	1	2083023	08/30/12	08/30/12	EPA 8260B
Bromochloromethane	ND	1.0	"	"	"	"	"	"
Bromodichloromethane	ND	1.0	"	"	"	"	"	"
Bromoform	ND	1.0	"	"	"	"	"	"
Bromomethane	ND	1.0	"	"	"	"	"	"
n-Butylbenzene	ND	1.0	"	"	"	"	"	"
sec-Butylbenzene	ND	1.0	"	"	"	"	"	"
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"
Chlorobenzene	ND	1.0	"	"	"	"	"	"
Chloroethane	ND	1.0	"	"	"	"	"	"
Chloroform	ND	1.0	"	"	"	"	"	"
Chloromethane	ND	1.0	"	"	"	"	"	"
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"
Dibromochloromethane	ND	1.0	"	"	"	"	"	"
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"
Dibromomethane	ND	1.0	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"
cis-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"

SunStar Laboratories, Inc.

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Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
09/05/12 16:24

LL_W9_082812_01
T121487-01 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

1,2-Dichloropropane	ND	1.0	ug/l	1	2083023	08/30/12	08/30/12	EPA 8260B
1,3-Dichloropropane	ND	1.0	"	"	"	"	"	"
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"
Isopropylbenzene	ND	1.0	"	"	"	"	"	"
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"
Methylene chloride	ND	1.0	"	"	"	"	"	"
Naphthalene	ND	1.0	"	"	"	"	"	"
n-Propylbenzene	ND	1.0	"	"	"	"	"	"
Styrene	ND	1.0	"	"	"	"	"	"
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"
Tetrachloroethene	ND	1.0	"	"	"	"	"	"
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"
Trichloroethene	ND	1.0	"	"	"	"	"	"
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"
Vinyl chloride	ND	1.0	"	"	"	"	"	"
Benzene	ND	0.50	"	"	"	"	"	"
Toluene	ND	0.50	"	"	"	"	"	"
Ethylbenzene	ND	0.50	"	"	"	"	"	"
m,p-Xylene	ND	1.0	"	"	"	"	"	"
o-Xylene	ND	0.50	"	"	"	"	"	"
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"

SunStar Laboratories, Inc.

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Murex 15375 Barranca Parkway, Suite K-101 Irvine CA, 92861	Project: Cenco Project Number: 1003-001-300 Project Manager: Jeremy Squire	Reported: 09/05/12 16:24
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**LL_W9_082812_01
T121487-01 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Tert-butyl alcohol	ND	10	ug/l	1	2083023	08/30/12	08/30/12	EPA 8260B
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"
Methyl tert-butyl ether	ND	1.0	"	"	"	"	"	"
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	5.0	"	"	"	"	"	"
<i>Surrogate: 4-Bromofluorobenzene</i>		<i>97.9 %</i>	<i>83.5-119</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>
<i>Surrogate: Dibromofluoromethane</i>		<i>98.1 %</i>	<i>81-136</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>
<i>Surrogate: Toluene-d8</i>		<i>103 %</i>	<i>88.8-117</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>

Murex 15375 Barranca Parkway, Suite K-101 Irvine CA, 92861	Project: Cenco Project Number: 1003-001-300 Project Manager: Jeremy Squire	Reported: 09/05/12 16:24
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LL_W10_082812_01
T121487-02 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Purgeable Petroleum Hydrocarbons by EPA 8015C

C6-C12 (GRO)	8200	50	ug/l	1	2083109	08/31/12	09/05/12	EPA 8015C	
<i>Surrogate: 4-Bromofluorobenzene</i>		<i>125 %</i>	<i>72.6-146</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	1.0	ug/l	1	2083023	08/30/12	08/31/12	EPA 8260B	
Bromochloromethane	ND	1.0	"	"	"	"	"	"	
Bromodichloromethane	ND	1.0	"	"	"	"	"	"	
Bromoform	ND	1.0	"	"	"	"	"	"	
Bromomethane	ND	1.0	"	"	"	"	"	"	
n-Butylbenzene	1.9	1.0	"	"	"	"	"	"	
sec-Butylbenzene	2.9	1.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"	
Chlorobenzene	ND	1.0	"	"	"	"	"	"	
Chloroethane	ND	1.0	"	"	"	"	"	"	
Chloroform	ND	1.0	"	"	"	"	"	"	
Chloromethane	ND	1.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
Dibromochloromethane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	3.2	1.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"	
Dibromomethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichloroethane	2.8	0.50	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	

SunStar Laboratories, Inc.

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Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
09/05/12 16:24

LL_W10_082812_01
T121487-02 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

1,3-Dichloropropane	ND	1.0	ug/l	1	2083023	08/30/12	08/31/12	EPA 8260B
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"
Isopropylbenzene	17	1.0	"	"	"	"	"	"
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"
Methylene chloride	ND	1.0	"	"	"	"	"	"
Naphthalene	270	100	"	100	"	"	"	"
n-Propylbenzene	22	1.0	"	1	"	"	"	"
Styrene	ND	1.0	"	"	"	"	"	"
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"
Tetrachloroethene	ND	1.0	"	"	"	"	"	"
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"
Trichloroethene	ND	1.0	"	"	"	"	"	"
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"
1,3,5-Trimethylbenzene	2.8	1.0	"	"	"	"	"	"
1,2,4-Trimethylbenzene	27	1.0	"	"	"	"	"	"
Vinyl chloride	ND	1.0	"	"	"	"	"	"
Benzene	3100	50	"	100	"	"	"	"
Toluene	4.3	0.50	"	1	"	"	"	"
Ethylbenzene	160	50	"	100	"	"	"	"
m,p-Xylene	32	1.0	"	1	"	"	"	"
o-Xylene	1.4	0.50	"	"	"	"	"	"
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"
Tert-butyl alcohol	61	10	"	"	"	"	"	"
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"

SunStar Laboratories, Inc.

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Murex 15375 Barranca Parkway, Suite K-101 Irvine CA, 92861	Project: Cenco Project Number: 1003-001-300 Project Manager: Jeremy Squire	Reported: 09/05/12 16:24
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**LL_W10_082812_01
T121487-02 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Ethyl tert-butyl ether	ND	2.0	ug/l	1	2083023	08/30/12	08/31/12	EPA 8260B
Methyl tert-butyl ether	ND	1.0	"	"	"	"	"	"
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	5.0	"	"	"	"	"	"
<i>Surrogate: 4-Bromofluorobenzene</i>		<i>106 %</i>	<i>83.5-119</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>
<i>Surrogate: Dibromofluoromethane</i>		<i>90.6 %</i>	<i>81-136</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>
<i>Surrogate: Toluene-d8</i>		<i>108 %</i>	<i>88.8-117</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>

Murex 15375 Barranca Parkway, Suite K-101 Irvine CA, 92861	Project: Cenco Project Number: 1003-001-300 Project Manager: Jeremy Squire	Reported: 09/05/12 16:24
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LL_W11_082812_01
T121487-03 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Purgeable Petroleum Hydrocarbons by EPA 8015C

C6-C12 (GRO)	7400	50	ug/l	1	2083109	08/31/12	09/05/12	EPA 8015C	
Surrogate: 4-Bromofluorobenzene		92.1 %	72.6-146		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	1.0	ug/l	1	2083023	08/30/12	08/31/12	EPA 8260B	
Bromochloromethane	ND	1.0	"	"	"	"	"	"	
Bromodichloromethane	ND	1.0	"	"	"	"	"	"	
Bromoform	ND	1.0	"	"	"	"	"	"	
Bromomethane	ND	1.0	"	"	"	"	"	"	
n-Butylbenzene	1.1	1.0	"	"	"	"	"	"	
sec-Butylbenzene	1.9	1.0	"	"	"	"	"	"	
tert-Butylbenzene	1.4	1.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"	
Chlorobenzene	ND	1.0	"	"	"	"	"	"	
Chloroethane	ND	1.0	"	"	"	"	"	"	
Chloroform	ND	1.0	"	"	"	"	"	"	
Chloromethane	ND	1.0	"	"	"	"	"	"	
2-Chlorotoluene	13	1.0	"	"	"	"	"	"	
4-Chlorotoluene	6.2	1.0	"	"	"	"	"	"	
Dibromochloromethane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	2.9	1.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"	
Dibromomethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	2.1	1.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	

SunStar Laboratories, Inc.

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Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
09/05/12 16:24

LL_W11_082812_01
T121487-03 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

1,3-Dichloropropane	ND	1.0	ug/l	1	2083023	08/30/12	08/31/12	EPA 8260B
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"
Isopropylbenzene	10	1.0	"	"	"	"	"	"
p-Isopropyltoluene	1.9	1.0	"	"	"	"	"	"
Methylene chloride	ND	1.0	"	"	"	"	"	"
Naphthalene	5.0	1.0	"	"	"	"	"	"
n-Propylbenzene	7.4	1.0	"	"	"	"	"	"
Styrene	ND	1.0	"	"	"	"	"	"
1,1,2,2-Tetrachloroethane	1.0	1.0	"	"	"	"	"	"
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"
Tetrachloroethene	ND	1.0	"	"	"	"	"	"
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"
Trichloroethene	ND	1.0	"	"	"	"	"	"
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"
1,3,5-Trimethylbenzene	97	1.0	"	"	"	"	"	"
1,2,4-Trimethylbenzene	70	1.0	"	"	"	"	"	"
Vinyl chloride	ND	1.0	"	"	"	"	"	"
Benzene	16	0.50	"	"	"	"	"	"
Toluene	30	0.50	"	"	"	"	"	"
Ethylbenzene	47	0.50	"	"	"	"	"	"
m,p-Xylene	130	1.0	"	"	"	"	"	"
o-Xylene	20	0.50	"	"	"	"	"	"
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"
Tert-butyl alcohol	ND	10	"	"	"	"	"	"
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"

SunStar Laboratories, Inc.

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Murex 15375 Barranca Parkway, Suite K-101 Irvine CA, 92861	Project: Cenco Project Number: 1003-001-300 Project Manager: Jeremy Squire	Reported: 09/05/12 16:24
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**LL_W11_082812_01
T121487-03 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Ethyl tert-butyl ether	ND	2.0	ug/l	1	2083023	08/30/12	08/31/12	EPA 8260B
Methyl tert-butyl ether	ND	1.0	"	"	"	"	"	"
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	5.0	"	"	"	"	"	"
<i>Surrogate: 4-Bromofluorobenzene</i>		<i>104 %</i>	<i>83.5-119</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>
<i>Surrogate: Dibromofluoromethane</i>		<i>115 %</i>	<i>81-136</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>
<i>Surrogate: Toluene-d8</i>		<i>94.1 %</i>	<i>88.8-117</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>

Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
09/05/12 16:24

LL_TB_082812
T121487-04 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	1.0	ug/l	1	2083023	08/30/12	08/31/12	EPA 8260B
Bromochloromethane	ND	1.0	"	"	"	"	"	"
Bromodichloromethane	ND	1.0	"	"	"	"	"	"
Bromoform	ND	1.0	"	"	"	"	"	"
Bromomethane	ND	1.0	"	"	"	"	"	"
n-Butylbenzene	ND	1.0	"	"	"	"	"	"
sec-Butylbenzene	ND	1.0	"	"	"	"	"	"
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"
Chlorobenzene	ND	1.0	"	"	"	"	"	"
Chloroethane	ND	1.0	"	"	"	"	"	"
Chloroform	ND	1.0	"	"	"	"	"	"
Chloromethane	ND	1.0	"	"	"	"	"	"
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"
Dibromochloromethane	ND	1.0	"	"	"	"	"	"
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"
Dibromomethane	ND	1.0	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"
cis-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"
1,2-Dichloropropane	ND	1.0	"	"	"	"	"	"
1,3-Dichloropropane	ND	1.0	"	"	"	"	"	"
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"

SunStar Laboratories, Inc.

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Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
09/05/12 16:24

LL_TB_082812
T121487-04 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

cis-1,3-Dichloropropene	ND	0.50	ug/l	1	2083023	08/30/12	08/31/12	EPA 8260B
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"
Isopropylbenzene	ND	1.0	"	"	"	"	"	"
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"
Methylene chloride	ND	1.0	"	"	"	"	"	"
Naphthalene	ND	1.0	"	"	"	"	"	"
n-Propylbenzene	ND	1.0	"	"	"	"	"	"
Styrene	ND	1.0	"	"	"	"	"	"
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"
Tetrachloroethene	ND	1.0	"	"	"	"	"	"
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"
Trichloroethene	ND	1.0	"	"	"	"	"	"
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"
Vinyl chloride	ND	1.0	"	"	"	"	"	"
Benzene	ND	0.50	"	"	"	"	"	"
Toluene	ND	0.50	"	"	"	"	"	"
Ethylbenzene	ND	0.50	"	"	"	"	"	"
m,p-Xylene	ND	1.0	"	"	"	"	"	"
o-Xylene	ND	0.50	"	"	"	"	"	"
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"
Tert-butyl alcohol	ND	10	"	"	"	"	"	"
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"
Methyl tert-butyl ether	ND	1.0	"	"	"	"	"	"

SunStar Laboratories, Inc.

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Murex 15375 Barranca Parkway, Suite K-101 Irvine CA, 92861	Project: Cenco Project Number: 1003-001-300 Project Manager: Jeremy Squire	Reported: 09/05/12 16:24
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**LL_TB_082812
T121487-04 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	5.0	ug/l	1	2083023	08/30/12	08/31/12	EPA 8260B	
Surrogate: 4-Bromofluorobenzene	98.0 %	83.5-119			"	"	"	"	
Surrogate: Dibromofluoromethane	79.5 %	81-136			"	"	"	"	S-GC
Surrogate: Toluene-d8	94.0 %	88.8-117			"	"	"	"	

Murex 15375 Barranca Parkway, Suite K-101 Irvine CA, 92861	Project: Cenco Project Number: 1003-001-300 Project Manager: Jeremy Squire	Reported: 09/05/12 16:24
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Purgeable Petroleum Hydrocarbons by EPA 8015C - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2083109 - EPA 5030 GC

Blank (2083109-BLK1)

Prepared: 08/31/12 Analyzed: 09/05/12

C6-C12 (GRO)	ND	50	ug/l							
Surrogate 4-Bromofluorobenzene	96.1		"	100		96.1	72.6-146			

LCS (2083109-BS1)

Prepared: 08/31/12 Analyzed: 09/05/12

C6-C12 (GRO)	6270	50	ug/l	5500		114	75-125			
Surrogate 4-Bromofluorobenzene	125		"	100		125	72.6-146			

Matrix Spike (2083109-MS1)

Source: T121487-02

Prepared: 08/31/12 Analyzed: 09/05/12

C6-C12 (GRO)	12600	50	ug/l	5500	8170	81.0	65-135			
Surrogate 4-Bromofluorobenzene	122		"	100		122	72.6-146			

Matrix Spike Dup (2083109-MSD1)

Source: T121487-02

Prepared: 08/31/12 Analyzed: 09/05/12

C6-C12 (GRO)	11600	50	ug/l	5500	8170	62.1	65-135	8.60	20	QM-07
Surrogate 4-Bromofluorobenzene	131		"	100		131	72.6-146			

Murex 15375 Barranca Parkway, Suite K-101 Irvine CA, 92861	Project: Cenco Project Number: 1003-001-300 Project Manager: Jeremy Squire	Reported: 09/05/12 16:24
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Volatile Organic Compounds by EPA Method 8260B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2083023 - EPA 5030 GCMS

Blank (2083023-BLK1)

Prepared & Analyzed: 08/30/12

Bromobenzene	ND	1.0	ug/l
Bromochloromethane	ND	1.0	"
Bromodichloromethane	ND	1.0	"
Bromoform	ND	1.0	"
Bromomethane	ND	1.0	"
n-Butylbenzene	ND	1.0	"
sec-Butylbenzene	ND	1.0	"
tert-Butylbenzene	ND	1.0	"
Carbon tetrachloride	ND	0.50	"
Chlorobenzene	ND	1.0	"
Chloroethane	ND	1.0	"
Chloroform	ND	1.0	"
Chloromethane	ND	1.0	"
2-Chlorotoluene	ND	1.0	"
4-Chlorotoluene	ND	1.0	"
Dibromochloromethane	ND	1.0	"
1,2-Dibromo-3-chloropropane	ND	1.0	"
1,2-Dibromoethane (EDB)	ND	1.0	"
Dibromomethane	ND	1.0	"
1,2-Dichlorobenzene	ND	1.0	"
1,3-Dichlorobenzene	ND	1.0	"
1,4-Dichlorobenzene	ND	1.0	"
Dichlorodifluoromethane	ND	0.50	"
1,1-Dichloroethane	ND	1.0	"
1,2-Dichloroethane	ND	0.50	"
1,1-Dichloroethene	ND	1.0	"
cis-1,2-Dichloroethene	ND	1.0	"
trans-1,2-Dichloroethene	ND	1.0	"
1,2-Dichloropropane	ND	1.0	"
1,3-Dichloropropane	ND	1.0	"
2,2-Dichloropropane	ND	1.0	"
1,1-Dichloropropene	ND	1.0	"
cis-1,3-Dichloropropene	ND	0.50	"
trans-1,3-Dichloropropene	ND	0.50	"
Hexachlorobutadiene	ND	1.0	"
Isopropylbenzene	ND	1.0	"

SunStar Laboratories, Inc.

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Murex 15375 Barranca Parkway, Suite K-101 Irvine CA, 92861	Project: Cenco Project Number: 1003-001-300 Project Manager: Jeremy Squire	Reported: 09/05/12 16:24
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Volatile Organic Compounds by EPA Method 8260B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2083023 - EPA 5030 GCMS

Blank (2083023-BLK1)

Prepared & Analyzed: 08/30/12

p-Isopropyltoluene	ND	1.0	ug/l							
Methylene chloride	ND	1.0	"							
Naphthalene	ND	1.0	"							
n-Propylbenzene	ND	1.0	"							
Styrene	ND	1.0	"							
1,1,2,2-Tetrachloroethane	ND	1.0	"							
1,1,1,2-Tetrachloroethane	ND	1.0	"							
Tetrachloroethene	ND	1.0	"							
1,2,3-Trichlorobenzene	ND	1.0	"							
1,2,4-Trichlorobenzene	ND	1.0	"							
1,1,2-Trichloroethane	ND	1.0	"							
1,1,1-Trichloroethane	ND	1.0	"							
Trichloroethene	ND	1.0	"							
Trichlorofluoromethane	ND	1.0	"							
1,2,3-Trichloropropane	ND	1.0	"							
1,3,5-Trimethylbenzene	ND	1.0	"							
1,2,4-Trimethylbenzene	ND	1.0	"							
Vinyl chloride	ND	1.0	"							
Benzene	ND	0.50	"							
Toluene	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
m,p-Xylene	ND	1.0	"							
o-Xylene	ND	0.50	"							
Tert-amyl methyl ether	ND	2.0	"							
Tert-butyl alcohol	ND	10	"							
Di-isopropyl ether	ND	2.0	"							
Ethyl tert-butyl ether	ND	2.0	"							
Methyl tert-butyl ether	ND	1.0	"							
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	5.0	"							
Surrogate 4-Bromofluorobenzene	7.03		"	8.00		87.9	83.5-119			
Surrogate Dibromofluoromethane	7.32		"	8.00		91.5	81-136			
Surrogate Toluene-d8	8.12		"	8.00		102	88.8-117			

SunStar Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Murex 15375 Barranca Parkway, Suite K-101 Irvine CA, 92861	Project: Cenco Project Number: 1003-001-300 Project Manager: Jeremy Squire	Reported: 09/05/12 16:24
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Volatile Organic Compounds by EPA Method 8260B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2083023 - EPA 5030 GCMS

LCS (2083023-BS1)

Prepared: 08/30/12 Analyzed: 08/31/12

Chlorobenzene	17.5	1.0	ug/l	20.0		87.4	75-125			
1,1-Dichloroethene	17.6	1.0	"	20.0		87.8	75-125			
Trichloroethene	17.8	1.0	"	20.0		89.2	75-125			
Benzene	17.2	0.50	"	20.0		86.2	75-125			
Toluene	17.6	0.50	"	20.0		88.0	75-125			
<i>Surrogate 4-Bromofluorobenzene</i>	7.62		"	8.00		95.2	83.5-119			
<i>Surrogate Dibromofluoromethane</i>	7.17		"	8.00		89.6	81-136			
<i>Surrogate Toluene-d8</i>	7.89		"	8.00		98.6	88.8-117			

Matrix Spike (2083023-MS1)

Source: T121471-05

Prepared: 08/30/12 Analyzed: 08/31/12

Chlorobenzene	17.6	1.0	ug/l	20.0	ND	87.8	75-125			
1,1-Dichloroethene	18.8	1.0	"	20.0	ND	93.9	75-125			
Trichloroethene	16.5	1.0	"	20.0	ND	82.4	75-125			
Benzene	17.8	0.50	"	20.0	ND	89.0	75-125			
Toluene	18.0	0.50	"	20.0	ND	90.2	75-125			
<i>Surrogate 4-Bromofluorobenzene</i>	7.68		"	8.00		96.0	83.5-119			
<i>Surrogate Dibromofluoromethane</i>	7.09		"	8.00		88.6	81-136			
<i>Surrogate Toluene-d8</i>	7.87		"	8.00		98.4	88.8-117			

Matrix Spike Dup (2083023-MSD1)

Source: T121471-05

Prepared: 08/30/12 Analyzed: 08/31/12

Chlorobenzene	18.0	1.0	ug/l	20.0	ND	90.2	75-125	2.75	20	
1,1-Dichloroethene	18.5	1.0	"	20.0	ND	92.6	75-125	1.39	20	
Trichloroethene	16.7	1.0	"	20.0	ND	83.4	75-125	1.15	20	
Benzene	17.8	0.50	"	20.0	ND	89.0	75-125	0.00	20	
Toluene	18.5	0.50	"	20.0	ND	92.4	75-125	2.46	20	
<i>Surrogate 4-Bromofluorobenzene</i>	7.52		"	8.00		94.0	83.5-119			
<i>Surrogate Dibromofluoromethane</i>	6.91		"	8.00		86.4	81-136			
<i>Surrogate Toluene-d8</i>	8.01		"	8.00		100	88.8-117			

Murex 15375 Barranca Parkway, Suite K-101 Irvine CA, 92861	Project: Cenco Project Number: 1003-001-300 Project Manager: Jeremy Squire	Reported: 09/05/12 16:24
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Notes and Definitions

S-GC Surrogate recovery outside of established control limits. The data was accepted based on valid recovery of the remaining surrogate(s).

QM-07 The spike recovery and or RPD was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

Sample disposal instructions: Disposal @ \$2.00 each _____ Return to client _____ Pickup _____

SAMPLE RECEIVING REVIEW SHEET

BATCH # T121487

Client Name: Murex

Project: Cenco

Received by: Dan M

Date/Time Received: 8/28/12 1620

Delivered by: ☐ Client ☒ SunStar Courier ☐ GSO ☐ FedEx ☐ Other _____

Total number of coolers received 1 Temp criteria = 6°C > 0°C (no frozen containers)

Temperature: cooler #1 4.6 °C +/- the CF (- 0.2°C) = 4.4 °C corrected temperature

cooler #2 _____ °C +/- the CF (- 0.2°C) = _____ °C corrected temperature

cooler #3 _____ °C +/- the CF (- 0.2°C) = _____ °C corrected temperature

Samples outside temp. but received on ice, w/in 6 hours of final sampling. ☒ Yes ☐ No* ☐ N/A

Custody Seals Intact on Cooler/Sample ☐ Yes ☐ No* ☒ N/A

Sample Containers Intact ☒ Yes ☐ No*

Sample labels match COC ID's ☒ Yes ☐ No*

Total number of containers received match COC ☒ Yes ☐ No*

Proper containers received for analyses requested on COC ☒ Yes ☐ No*

Proper preservative indicated on COC/containers for analyses requested ☒ Yes ☐ No* ☐ N/A

Complete shipment received in good condition with correct temperatures, containers, labels, volumes preservatives and within method specified holding times. ☒ Yes ☐ No*

* Complete Non-Conformance Receiving Sheet if checked

Cooler/Sample Review - Initials and date

[Signature] 8/28/12

Comments:



25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

07 September 2012

Jeremy Squire
Murex
15375 Barranca Parkway, Suite K-101
Irvine, CA 92861
RE: Cenco

Enclosed are the results of analyses for samples received by the laboratory on 08/30/12 16:20. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Katherine Shields For Wendy Hsiao
Project Manager

Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
09/07/12 08:22

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
LL_W7_082912_01	T121499-01	Water	08/29/12 08:00	08/30/12 16:20
LL_W8_082912_01	T121499-02	Water	08/29/12 11:30	08/30/12 16:20
LL_503B_083012_01	T121499-03	Water	08/30/12 12:00	08/30/12 16:20
LL_W12_083012_01	T121499-04	Water	08/30/12 14:23	08/30/12 16:20
LL_TB_083012	T121499-05	Water	08/30/12 00:00	08/30/12 16:20

Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
09/07/12 08:22

LL_W7_082912_01

T121499-01 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Purgeable Petroleum Hydrocarbons by EPA 8015C

C6-C12 (GRO)	ND	50	ug/l	1	2083109	08/31/12	09/05/12	EPA 8015C	
Surrogate: 4-Bromofluorobenzene		91.5 %	72.6-146		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	1.0	ug/l	1	2083117	08/31/12	09/03/12	EPA 8260B	
Bromochloromethane	ND	1.0	"	"	"	"	"	"	
Bromodichloromethane	ND	1.0	"	"	"	"	"	"	
Bromoform	ND	1.0	"	"	"	"	"	"	
Bromomethane	ND	1.0	"	"	"	"	"	"	
n-Butylbenzene	ND	1.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	1.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"	
Chlorobenzene	ND	1.0	"	"	"	"	"	"	
Chloroethane	ND	1.0	"	"	"	"	"	"	
Chloroform	ND	1.0	"	"	"	"	"	"	
Chloromethane	ND	1.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
Dibromochloromethane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"	
Dibromomethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	

SunStar Laboratories, Inc.

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Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
09/07/12 08:22

LL_W7_082912_01
T121499-01 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

1,2-Dichloropropane	ND	1.0	ug/l	1	2083117	08/31/12	09/03/12	EPA 8260B
1,3-Dichloropropane	ND	1.0	"	"	"	"	"	"
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"
Isopropylbenzene	ND	1.0	"	"	"	"	"	"
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"
Methylene chloride	ND	1.0	"	"	"	"	"	"
Naphthalene	ND	1.0	"	"	"	"	"	"
n-Propylbenzene	ND	1.0	"	"	"	"	"	"
Styrene	ND	1.0	"	"	"	"	"	"
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"
Tetrachloroethene	ND	1.0	"	"	"	"	"	"
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"
Trichloroethene	ND	1.0	"	"	"	"	"	"
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"
Vinyl chloride	ND	1.0	"	"	"	"	"	"
Benzene	ND	0.50	"	"	"	"	"	"
Toluene	ND	0.50	"	"	"	"	"	"
Ethylbenzene	ND	0.50	"	"	"	"	"	"
m,p-Xylene	ND	1.0	"	"	"	"	"	"
o-Xylene	ND	0.50	"	"	"	"	"	"
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"

SunStar Laboratories, Inc.

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Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
09/07/12 08:22

**LL_W7_082912_01
T121499-01 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Tert-butyl alcohol	ND	10	ug/l	1	2083117	08/31/12	09/03/12	EPA 8260B	
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	1.0	"	"	"	"	"	"	
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	5.0	"	"	"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		93.8 %	83.5-119		"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		85.9 %	81-136		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		94.8 %	88.8-117		"	"	"	"	

Murex 15375 Barranca Parkway, Suite K-101 Irvine CA, 92861	Project: Cenco Project Number: 1003-001-300 Project Manager: Jeremy Squire	Reported: 09/07/12 08:22
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LL_W8_082912_01
T121499-02 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Purgeable Petroleum Hydrocarbons by EPA 8015C

C6-C12 (GRO)	190	50	ug/l	1	2083109	08/31/12	09/05/12	EPA 8015C	
Surrogate: 4-Bromofluorobenzene	92.3 %	72.6-146	"	"	"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	1.0	ug/l	1	2083117	08/31/12	09/03/12	EPA 8260B	
Bromochloromethane	ND	1.0	"	"	"	"	"	"	
Bromodichloromethane	ND	1.0	"	"	"	"	"	"	
Bromoform	ND	1.0	"	"	"	"	"	"	
Bromomethane	ND	1.0	"	"	"	"	"	"	
n-Butylbenzene	ND	1.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	1.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"	
Chlorobenzene	ND	1.0	"	"	"	"	"	"	
Chloroethane	ND	1.0	"	"	"	"	"	"	
Chloroform	ND	1.0	"	"	"	"	"	"	
Chloromethane	ND	1.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
Dibromochloromethane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"	
Dibromomethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	

SunStar Laboratories, Inc.

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Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
09/07/12 08:22

LL_W8_082912_01
T121499-02 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

1,2-Dichloropropane	ND	1.0	ug/l	1	2083117	08/31/12	09/03/12	EPA 8260B	
1,3-Dichloropropane	ND	1.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"	
Isopropylbenzene	ND	1.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"	
Methylene chloride	ND	1.0	"	"	"	"	"	"	
Naphthalene	ND	1.0	"	"	"	"	"	"	
n-Propylbenzene	ND	1.0	"	"	"	"	"	"	
Styrene	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
Tetrachloroethene	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"	
Trichloroethene	ND	1.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
Vinyl chloride	ND	1.0	"	"	"	"	"	"	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
m,p-Xylene	ND	1.0	"	"	"	"	"	"	
o-Xylene	ND	0.50	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"	

SunStar Laboratories, Inc.

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Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
09/07/12 08:22

**LL_W8_082912_01
T121499-02 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Tert-butyl alcohol	ND	10	ug/l	1	2083117	08/31/12	09/03/12	EPA 8260B	
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	1.0	"	"	"	"	"	"	
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	5.0	"	"	"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		<i>93.5 %</i>							
<i>Surrogate: Dibromofluoromethane</i>		<i>88.6 %</i>							
<i>Surrogate: Toluene-d8</i>		<i>98.0 %</i>							

Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
09/07/12 08:22

LL_503B_083012_01
T121499-03 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Purgeable Petroleum Hydrocarbons by EPA 8015C

C6-C12 (GRO)	2000	50	ug/l	1	2083109	08/31/12	09/05/12	EPA 8015C
Surrogate: 4-Bromofluorobenzene		107 %	72.6-146		"	"	"	"

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	1.0	ug/l	1	2083117	08/31/12	09/03/12	EPA 8260B
Bromochloromethane	ND	1.0	"	"	"	"	"	"
Bromodichloromethane	ND	1.0	"	"	"	"	"	"
Bromoform	ND	1.0	"	"	"	"	"	"
Bromomethane	ND	1.0	"	"	"	"	"	"
n-Butylbenzene	2.2	1.0	"	"	"	"	"	"
sec-Butylbenzene	2.1	1.0	"	"	"	"	"	"
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"
Chlorobenzene	ND	1.0	"	"	"	"	"	"
Chloroethane	ND	1.0	"	"	"	"	"	"
Chloroform	ND	1.0	"	"	"	"	"	"
Chloromethane	ND	1.0	"	"	"	"	"	"
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"
Dibromochloromethane	ND	1.0	"	"	"	"	"	"
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"
Dibromomethane	ND	1.0	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"
cis-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"
1,2-Dichloropropane	ND	1.0	"	"	"	"	"	"

SunStar Laboratories, Inc.

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Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
09/07/12 08:22

LL_503B_083012_01
T121499-03 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

1,3-Dichloropropane	ND	1.0	ug/l	1	2083117	08/31/12	09/03/12	EPA 8260B	
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"	
Isopropylbenzene	5.8	1.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"	
Methylene chloride	ND	1.0	"	"	"	"	"	"	
Naphthalene	98	1.0	"	"	"	"	"	"	
n-Propylbenzene	17	1.0	"	"	"	"	"	"	
Styrene	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
Tetrachloroethene	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"	
Trichloroethene	ND	1.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	34	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	120	1.0	"	"	"	"	"	"	
Vinyl chloride	ND	1.0	"	"	"	"	"	"	
Benzene	130	0.50	"	"	"	"	"	"	E
Toluene	19	0.50	"	"	"	"	"	"	
Ethylbenzene	100	0.50	"	"	"	"	"	"	
m,p-Xylene	190	1.0	"	"	"	"	"	"	
o-Xylene	39	0.50	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"	
Tert-butyl alcohol	ND	10	"	"	"	"	"	"	
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"	

SunStar Laboratories, Inc.

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Murex 15375 Barranca Parkway, Suite K-101 Irvine CA, 92861	Project: Cenco Project Number: 1003-001-300 Project Manager: Jeremy Squire	Reported: 09/07/12 08:22
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LL_503B_083012_01
T121499-03 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Ethyl tert-butyl ether	ND	2.0	ug/l	1	2083117	08/31/12	09/03/12	EPA 8260B
Methyl tert-butyl ether	3.9	1.0	"	"	"	"	"	"
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	5.0	"	"	"	"	"	"
<i>Surrogate: 4-Bromofluorobenzene</i>		105 %	83.5-119		"	"	"	"
<i>Surrogate: Dibromofluoromethane</i>		86.8 %	81-136		"	"	"	"
<i>Surrogate: Toluene-d8</i>		96.5 %	88.8-117		"	"	"	"

Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
09/07/12 08:22

LL_W12_083012_01
T121499-04 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Purgeable Petroleum Hydrocarbons by EPA 8015C

C6-C12 (GRO)	580	50	ug/l	1	2083109	08/31/12	09/05/12	EPA 8015C	
Surrogate: 4-Bromofluorobenzene		95.8 %	72.6-146		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	1.0	ug/l	1	2083117	08/31/12	09/03/12	EPA 8260B	
Bromochloromethane	ND	1.0	"	"	"	"	"	"	
Bromodichloromethane	ND	1.0	"	"	"	"	"	"	
Bromoform	ND	1.0	"	"	"	"	"	"	
Bromomethane	ND	1.0	"	"	"	"	"	"	
n-Butylbenzene	3.2	1.0	"	"	"	"	"	"	
sec-Butylbenzene	1.9	1.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"	
Chlorobenzene	ND	1.0	"	"	"	"	"	"	
Chloroethane	ND	1.0	"	"	"	"	"	"	
Chloroform	ND	1.0	"	"	"	"	"	"	
Chloromethane	ND	1.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
Dibromochloromethane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"	
Dibromomethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	

SunStar Laboratories, Inc.

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Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
09/07/12 08:22

LL_W12_083012_01
T121499-04 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

1,3-Dichloropropane	ND	1.0	ug/l	1	2083117	08/31/12	09/03/12	EPA 8260B	
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"	
Isopropylbenzene	3.0	1.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"	
Methylene chloride	ND	1.0	"	"	"	"	"	"	
Naphthalene	20	1.0	"	"	"	"	"	"	
n-Propylbenzene	7.5	1.0	"	"	"	"	"	"	
Styrene	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
Tetrachloroethene	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"	
Trichloroethene	ND	1.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	1.2	1.0	"	"	"	"	"	"	
Vinyl chloride	ND	1.0	"	"	"	"	"	"	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	1.5	0.50	"	"	"	"	"	"	
m,p-Xylene	1.0	1.0	"	"	"	"	"	"	
o-Xylene	ND	0.50	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"	
Tert-butyl alcohol	ND	10	"	"	"	"	"	"	

SunStar Laboratories, Inc.

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Murex 15375 Barranca Parkway, Suite K-101 Irvine CA, 92861	Project: Cenco Project Number: 1003-001-300 Project Manager: Jeremy Squire	Reported: 09/07/12 08:22
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**LL_W12_083012_01
T121499-04 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Di-isopropyl ether	ND	2.0	ug/l	1	2083117	08/31/12	09/03/12	EPA 8260B
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"
Methyl tert-butyl ether	ND	1.0	"	"	"	"	"	"
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	5.0	"	"	"	"	"	"
<i>Surrogate: 4-Bromofluorobenzene</i>		<i>98.1 %</i>	<i>83.5-119</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>
<i>Surrogate: Dibromofluoromethane</i>		<i>85.1 %</i>	<i>81-136</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>
<i>Surrogate: Toluene-d8</i>		<i>96.5 %</i>	<i>88.8-117</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>

Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
09/07/12 08:22

LL_TB_083012
T121499-05 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	1.0	ug/l	1	2083117	08/31/12	09/03/12	EPA 8260B	
Bromochloromethane	ND	1.0	"	"	"	"	"	"	
Bromodichloromethane	ND	1.0	"	"	"	"	"	"	
Bromoform	ND	1.0	"	"	"	"	"	"	
Bromomethane	ND	1.0	"	"	"	"	"	"	
n-Butylbenzene	ND	1.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	1.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"	
Chlorobenzene	ND	1.0	"	"	"	"	"	"	
Chloroethane	ND	1.0	"	"	"	"	"	"	
Chloroform	ND	1.0	"	"	"	"	"	"	
Chloromethane	ND	1.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
Dibromochloromethane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"	
Dibromomethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
1,3-Dichloropropane	ND	1.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"	

SunStar Laboratories, Inc.

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Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
09/07/12 08:22

LL_TB_083012
T121499-05 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

cis-1,3-Dichloropropene	ND	0.50	ug/l	1	2083117	08/31/12	09/03/12	EPA 8260B	
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"	
Isopropylbenzene	ND	1.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"	
Methylene chloride	ND	1.0	"	"	"	"	"	"	
Naphthalene	ND	1.0	"	"	"	"	"	"	
n-Propylbenzene	ND	1.0	"	"	"	"	"	"	
Styrene	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
Tetrachloroethene	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"	
Trichloroethene	ND	1.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
Vinyl chloride	ND	1.0	"	"	"	"	"	"	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
m,p-Xylene	ND	1.0	"	"	"	"	"	"	
o-Xylene	ND	0.50	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"	
Tert-butyl alcohol	ND	10	"	"	"	"	"	"	
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	1.0	"	"	"	"	"	"	

SunStar Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Murex 15375 Barranca Parkway, Suite K-101 Irvine CA, 92861	Project: Cenco Project Number: 1003-001-300 Project Manager: Jeremy Squire	Reported: 09/07/12 08:22
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**LL_TB_083012
T121499-05 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	5.0	ug/l	1	2083117	08/31/12	09/03/12	EPA 8260B	
Surrogate: 4-Bromofluorobenzene	95.1 %	83.5-119			"	"	"	"	
Surrogate: Dibromofluoromethane	88.8 %	81-136			"	"	"	"	
Surrogate: Toluene-d8	95.4 %	88.8-117			"	"	"	"	

Murex 15375 Barranca Parkway, Suite K-101 Irvine CA, 92861	Project: Cenco Project Number: 1003-001-300 Project Manager: Jeremy Squire	Reported: 09/07/12 08:22
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Purgeable Petroleum Hydrocarbons by EPA 8015C - Quality Control
SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2083109 - EPA 5030 GC										
Blank (2083109-BLK1)				Prepared: 08/31/12 Analyzed: 09/05/12						
C6-C12 (GRO)	ND	50	ug/l							
Surrogate 4-Bromofluorobenzene	96.1		"	100		96.1	72.6-146			
LCS (2083109-BS1)				Prepared: 08/31/12 Analyzed: 09/05/12						
C6-C12 (GRO)	6270	50	ug/l	5500		114	75-125			
Surrogate 4-Bromofluorobenzene	125		"	100		125	72.6-146			
Matrix Spike (2083109-MS1)				Source: T121487-02		Prepared: 08/31/12 Analyzed: 09/05/12				
C6-C12 (GRO)	12600	50	ug/l	5500	8170	81.0	65-135			
Surrogate 4-Bromofluorobenzene	122		"	100		122	72.6-146			
Matrix Spike Dup (2083109-MSD1)				Source: T121487-02		Prepared: 08/31/12 Analyzed: 09/05/12				
C6-C12 (GRO)	11600	50	ug/l	5500	8170	62.1	65-135	8.60	20	QM-07
Surrogate 4-Bromofluorobenzene	131		"	100		131	72.6-146			

Murex 15375 Barranca Parkway, Suite K-101 Irvine CA, 92861	Project: Cenco Project Number: 1003-001-300 Project Manager: Jeremy Squire	Reported: 09/07/12 08:22
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Volatile Organic Compounds by EPA Method 8260B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2083117 - EPA 5030 GCMS

Blank (2083117-BLK1)

Prepared: 08/31/12 Analyzed: 09/03/12

Bromobenzene	ND	1.0	ug/l
Bromochloromethane	ND	1.0	"
Bromodichloromethane	ND	1.0	"
Bromoform	ND	1.0	"
Bromomethane	ND	1.0	"
n-Butylbenzene	ND	1.0	"
sec-Butylbenzene	ND	1.0	"
tert-Butylbenzene	ND	1.0	"
Carbon tetrachloride	ND	0.50	"
Chlorobenzene	ND	1.0	"
Chloroethane	ND	1.0	"
Chloroform	ND	1.0	"
Chloromethane	ND	1.0	"
2-Chlorotoluene	ND	1.0	"
4-Chlorotoluene	ND	1.0	"
Dibromochloromethane	ND	1.0	"
1,2-Dibromo-3-chloropropane	ND	1.0	"
1,2-Dibromoethane (EDB)	ND	1.0	"
Dibromomethane	ND	1.0	"
1,2-Dichlorobenzene	ND	1.0	"
1,3-Dichlorobenzene	ND	1.0	"
1,4-Dichlorobenzene	ND	1.0	"
Dichlorodifluoromethane	ND	0.50	"
1,1-Dichloroethane	ND	1.0	"
1,2-Dichloroethane	ND	0.50	"
1,1-Dichloroethene	ND	1.0	"
cis-1,2-Dichloroethene	ND	1.0	"
trans-1,2-Dichloroethene	ND	1.0	"
1,2-Dichloropropane	ND	1.0	"
1,3-Dichloropropane	ND	1.0	"
2,2-Dichloropropane	ND	1.0	"
1,1-Dichloropropene	ND	1.0	"
cis-1,3-Dichloropropene	ND	0.50	"
trans-1,3-Dichloropropene	ND	0.50	"
Hexachlorobutadiene	ND	1.0	"
Isopropylbenzene	ND	1.0	"

SunStar Laboratories, Inc.

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Murex 15375 Barranca Parkway, Suite K-101 Irvine CA, 92861	Project: Cenco Project Number: 1003-001-300 Project Manager: Jeremy Squire	Reported: 09/07/12 08:22
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Volatile Organic Compounds by EPA Method 8260B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2083117 - EPA 5030 GCMS

Blank (2083117-BLK1)

Prepared: 08/31/12 Analyzed: 09/03/12

p-Isopropyltoluene	ND	1.0	ug/l							
Methylene chloride	ND	1.0	"							
Naphthalene	ND	1.0	"							
n-Propylbenzene	ND	1.0	"							
Styrene	ND	1.0	"							
1,1,2,2-Tetrachloroethane	ND	1.0	"							
1,1,1,2-Tetrachloroethane	ND	1.0	"							
Tetrachloroethene	ND	1.0	"							
1,2,3-Trichlorobenzene	ND	1.0	"							
1,2,4-Trichlorobenzene	ND	1.0	"							
1,1,2-Trichloroethane	ND	1.0	"							
1,1,1-Trichloroethane	ND	1.0	"							
Trichloroethene	ND	1.0	"							
Trichlorofluoromethane	ND	1.0	"							
1,2,3-Trichloropropane	ND	1.0	"							
1,3,5-Trimethylbenzene	ND	1.0	"							
1,2,4-Trimethylbenzene	ND	1.0	"							
Vinyl chloride	ND	1.0	"							
Benzene	ND	0.50	"							
Toluene	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
m,p-Xylene	ND	1.0	"							
o-Xylene	ND	0.50	"							
Tert-amyl methyl ether	ND	2.0	"							
Tert-butyl alcohol	ND	10	"							
Di-isopropyl ether	ND	2.0	"							
Ethyl tert-butyl ether	ND	2.0	"							
Methyl tert-butyl ether	ND	1.0	"							
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	5.0	"							
Surrogate 4-Bromofluorobenzene	7.67		"	8.00		95.9	83.5-119			
Surrogate Dibromofluoromethane	6.46		"	8.00		80.8	81-136			S-GC
Surrogate Toluene-d8	7.60		"	8.00		95.0	88.8-117			

SunStar Laboratories, Inc.

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Murex 15375 Barranca Parkway, Suite K-101 Irvine CA, 92861	Project: Cenco Project Number: 1003-001-300 Project Manager: Jeremy Squire	Reported: 09/07/12 08:22
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Volatile Organic Compounds by EPA Method 8260B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2083117 - EPA 5030 GCMS

LCS (2083117-BS1)

Prepared: 08/31/12 Analyzed: 09/03/12

Chlorobenzene	17.2	1.0	ug/l	20.0		85.8	75-125			
1,1-Dichloroethene	18.6	1.0	"	20.0		93.0	75-125			
Trichloroethene	18.8	1.0	"	20.0		93.8	75-125			
Benzene	16.8	0.50	"	20.0		83.9	75-125			
Toluene	18.6	0.50	"	20.0		93.1	75-125			
Surrogate 4-Bromofluorobenzene	7.76		"	8.00		97.0	83.5-119			
Surrogate Dibromofluoromethane	7.55		"	8.00		94.4	81-136			
Surrogate Toluene-d8	8.01		"	8.00		100	88.8-117			

Matrix Spike (2083117-MS1)

Source: T121499-01

Prepared: 08/31/12 Analyzed: 09/03/12

Chlorobenzene	16.8	1.0	ug/l	20.0	ND	83.9	75-125			
1,1-Dichloroethene	17.5	1.0	"	20.0	ND	87.3	75-125			
Trichloroethene	21.0	1.0	"	20.0	ND	105	75-125			
Benzene	16.8	0.50	"	20.0	ND	84.1	75-125			
Toluene	17.1	0.50	"	20.0	ND	85.6	75-125			
Surrogate 4-Bromofluorobenzene	7.77		"	8.00		97.1	83.5-119			
Surrogate Dibromofluoromethane	7.41		"	8.00		92.6	81-136			
Surrogate Toluene-d8	8.11		"	8.00		101	88.8-117			

Matrix Spike Dup (2083117-MSD1)

Source: T121499-01

Prepared: 08/31/12 Analyzed: 09/03/12

Chlorobenzene	17.0	1.0	ug/l	20.0	ND	84.8	75-125	1.13	20	
1,1-Dichloroethene	18.2	1.0	"	20.0	ND	90.9	75-125	4.04	20	
Trichloroethene	20.9	1.0	"	20.0	ND	105	75-125	0.0955	20	
Benzene	16.5	0.50	"	20.0	ND	82.4	75-125	2.04	20	
Toluene	17.2	0.50	"	20.0	ND	85.8	75-125	0.175	20	
Surrogate 4-Bromofluorobenzene	7.99		"	8.00		99.9	83.5-119			
Surrogate Dibromofluoromethane	7.76		"	8.00		97.0	81-136			
Surrogate Toluene-d8	8.11		"	8.00		101	88.8-117			

SunStar Laboratories, Inc.

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Murex 15375 Barranca Parkway, Suite K-101 Irvine CA, 92861	Project: Cenco Project Number: 1003-001-300 Project Manager: Jeremy Squire	Reported: 09/07/12 08:22
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Notes and Definitions

S-GC Surrogate recovery outside of established control limits. The data was accepted based on valid recovery of the remaining surrogate(s).

QM-07 The spike recovery and or RPD was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

E The concentration indicated for this analyte is above the calibration range of the instrument. This value should be considered as an estimate as the actual value may be higher.

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

Chain of Custody Record

Page: 1 OF 1

Client Project #: 1003-001-300

EDF #: _____

[illegible]

Sample disposal Instructions: Disposal @ \$2.00 each _____ Return to client _____ Pickup _____

SAMPLE RECEIVING REVIEW SHEET

BATCH # 7121499

Client Name: MUREX

Project: CENCO

Received by: DAN

Date/Time Received: 8-30-17 16:20

Delivered by: ☐ Client ☒ SunStar Courier ☐ GSO ☐ FedEx ☐ Other _____

Total number of coolers received 0 Temp criteria = 6°C > 0°C (no frozen containers)

Temperature: cooler #1 4.0 °C +/- the CF (- 0.2°C) = 3.8 °C corrected temperature

cooler #2 _____ °C +/- the CF (- 0.2°C) = _____ °C corrected temperature

cooler #3 _____ °C +/- the CF (- 0.2°C) = _____ °C corrected temperature

Samples outside temp. but received on ice, w/in 6 hours of final sampling. ☒ Yes ☐ No* ☐ N/A

Custody Seals Intact on Cooler/Sample ☐ Yes ☐ No* ☒ N/A

Sample Containers Intact ☒ Yes ☐ No*

Sample labels match COC ID's ☒ Yes ☐ No*

Total number of containers received match COC ☒ Yes ☐ No*

Proper containers received for analyses requested on COC ☒ Yes ☐ No*

Proper preservative indicated on COC/containers for analyses requested ☒ Yes ☐ No* ☐ N/A

Complete shipment received in good condition with correct temperatures, containers, labels, volumes preservatives and within method specified holding times. ☒ Yes ☐ No*

* Complete Non-Conformance Receiving Sheet if checked

Cooler/Sample Review - Initials and date BC 8-31-17

Comments:



25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

07 September 2012

Jeremy Squire
Murex
15375 Barranca Parkway, Suite K-101
Irvine, CA 92861
RE: Cenco

Enclosed are the results of analyses for samples received by the laboratory on 09/04/12 16:15. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Katherine Shields For Wendy Hsiao
Project Manager

Murex 15375 Barranca Parkway, Suite K-101 Irvine CA, 92861	Project: Cenco Project Number: 1003-001-300 Project Manager: Jeremy Squire	Reported: 09/07/12 16:41
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ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
LL_701_083112_01	T121518-01	Water	08/31/12 09:36	09/04/12 16:15
LL_701_083112_02	T121518-02	Water	08/31/12 09:45	09/04/12 16:15
LL_702_083112_01	T121518-03	Water	08/31/12 12:40	09/04/12 16:15
LL_702_083112_02	T121518-04	Water	08/31/12 13:00	09/04/12 16:15
LL_703_083112_01	T121518-05	Water	08/31/12 14:00	09/04/12 16:15
LL_703_083112_02	T121518-06	Water	08/31/12 14:32	09/04/12 16:15
LL_704_090412_01	T121518-07	Water	09/04/12 10:25	09/04/12 16:15
LL_705_090412_01	T121518-08	Water	09/04/12 10:37	09/04/12 16:15
LL_706_090412_01	T121518-09	Water	09/04/12 14:05	09/04/12 16:15
LL_707_090412_01	T121518-10	Water	09/04/12 16:13	09/04/12 16:15
LL_TB_090412	T121518-11	Water	09/04/12 00:00	09/04/12 16:15

Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
09/07/12 16:41

LL_701_083112_01

T121518-01 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Purgeable Petroleum Hydrocarbons by EPA 8015C

C6-C12 (GRO)	350	50	ug/l	1	2090512	09/05/12	09/06/12	EPA 8015C	
Surrogate: 4-Bromofluorobenzene		102 %	72.6-146		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	1.0	ug/l	1	2090511	09/05/12	09/05/12	EPA 8260B	
Bromochloromethane	ND	1.0	"	"	"	"	"	"	
Bromodichloromethane	ND	1.0	"	"	"	"	"	"	
Bromoform	ND	1.0	"	"	"	"	"	"	
Bromomethane	ND	1.0	"	"	"	"	"	"	
n-Butylbenzene	ND	1.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	1.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"	
Chlorobenzene	ND	1.0	"	"	"	"	"	"	
Chloroethane	ND	1.0	"	"	"	"	"	"	
Chloroform	ND	1.0	"	"	"	"	"	"	
Chloromethane	ND	1.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
Dibromochloromethane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"	
Dibromomethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethene	5.3	1.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	18	1.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	2.9	1.0	"	"	"	"	"	"	

SunStar Laboratories, Inc.

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Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
09/07/12 16:41

LL_701_083112_01
T121518-01 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

1,2-Dichloropropane	ND	1.0	ug/l	1	2090511	09/05/12	09/05/12	EPA 8260B	
1,3-Dichloropropane	ND	1.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"	
Isopropylbenzene	ND	1.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"	
Methylene chloride	ND	1.0	"	"	"	"	"	"	
Naphthalene	ND	1.0	"	"	"	"	"	"	
n-Propylbenzene	ND	1.0	"	"	"	"	"	"	
Styrene	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
Tetrachloroethene	2.7	1.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"	
Trichloroethene	16	1.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
Vinyl chloride	3.7	1.0	"	"	"	"	"	"	
Benzene	0.75	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
m,p-Xylene	ND	1.0	"	"	"	"	"	"	
o-Xylene	ND	0.50	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"	

SunStar Laboratories, Inc.

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Murex 15375 Barranca Parkway, Suite K-101 Irvine CA, 92861	Project: Cenco Project Number: 1003-001-300 Project Manager: Jeremy Squire	Reported: 09/07/12 16:41
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**LL_701_083112_01
T121518-01 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Tert-butyl alcohol	ND	10	ug/l	1	2090511	09/05/12	09/05/12	EPA 8260B	
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	1.0	"	"	"	"	"	"	
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	5.0	"	"	"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		<i>109 %</i>	<i>83.5-119</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	
<i>Surrogate: Dibromofluoromethane</i>		<i>101 %</i>	<i>81-136</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	
<i>Surrogate: Toluene-d8</i>		<i>93.8 %</i>	<i>88.8-117</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	

Murex 15375 Barranca Parkway, Suite K-101 Irvine CA, 92861	Project: Cenco Project Number: 1003-001-300 Project Manager: Jeremy Squire	Reported: 09/07/12 16:41
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LL_701_083112_02
T121518-02 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Purgeable Petroleum Hydrocarbons by EPA 8015C

C6-C12 (GRO)	340	50	ug/l	1	2090512	09/05/12	09/06/12	EPA 8015C	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>110 %</i>	<i>72.6-146</i>	<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	1.0	ug/l	1	2090511	09/05/12	09/05/12	EPA 8260B	
Bromochloromethane	ND	1.0	"	"	"	"	"	"	
Bromodichloromethane	ND	1.0	"	"	"	"	"	"	
Bromoform	ND	1.0	"	"	"	"	"	"	
Bromomethane	ND	1.0	"	"	"	"	"	"	
n-Butylbenzene	ND	1.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	1.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"	
Chlorobenzene	ND	1.0	"	"	"	"	"	"	
Chloroethane	ND	1.0	"	"	"	"	"	"	
Chloroform	ND	1.0	"	"	"	"	"	"	
Chloromethane	ND	1.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
Dibromochloromethane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"	
Dibromomethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethene	5.0	1.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	17	1.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	2.8	1.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	

SunStar Laboratories, Inc.

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Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
09/07/12 16:41

LL_701_083112_02
T121518-02 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

1,3-Dichloropropane	ND	1.0	ug/l	1	2090511	09/05/12	09/05/12	EPA 8260B
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"
Isopropylbenzene	ND	1.0	"	"	"	"	"	"
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"
Methylene chloride	ND	1.0	"	"	"	"	"	"
Naphthalene	ND	1.0	"	"	"	"	"	"
n-Propylbenzene	ND	1.0	"	"	"	"	"	"
Styrene	ND	1.0	"	"	"	"	"	"
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"
Tetrachloroethene	2.5	1.0	"	"	"	"	"	"
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"
Trichloroethene	15	1.0	"	"	"	"	"	"
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"
Vinyl chloride	3.5	1.0	"	"	"	"	"	"
Benzene	0.94	0.50	"	"	"	"	"	"
Toluene	ND	0.50	"	"	"	"	"	"
Ethylbenzene	ND	0.50	"	"	"	"	"	"
m,p-Xylene	ND	1.0	"	"	"	"	"	"
o-Xylene	ND	0.50	"	"	"	"	"	"
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"
Tert-butyl alcohol	ND	10	"	"	"	"	"	"

SunStar Laboratories, Inc.

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Murex 15375 Barranca Parkway, Suite K-101 Irvine CA, 92861	Project: Cenco Project Number: 1003-001-300 Project Manager: Jeremy Squire	Reported: 09/07/12 16:41
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**LL_701_083112_02
T121518-02 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Di-isopropyl ether	ND	2.0	ug/l	1	2090511	09/05/12	09/05/12	EPA 8260B	
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	1.0	"	"	"	"	"	"	
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	5.0	"	"	"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		<i>108 %</i>	<i>83.5-119</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	
<i>Surrogate: Dibromofluoromethane</i>		<i>101 %</i>	<i>81-136</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	
<i>Surrogate: Toluene-d8</i>		<i>96.1 %</i>	<i>88.8-117</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	

Murex 15375 Barranca Parkway, Suite K-101 Irvine CA, 92861	Project: Cenco Project Number: 1003-001-300 Project Manager: Jeremy Squire	Reported: 09/07/12 16:41
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LL_702_083112_01
T121518-03 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Purgeable Petroleum Hydrocarbons by EPA 8015C

C6-C12 (GRO)	1200	50	ug/l	1	2090512	09/05/12	09/06/12	EPA 8015C	
Surrogate: 4-Bromofluorobenzene		116 %	72.6-146		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	1.0	ug/l	1	2090511	09/05/12	09/05/12	EPA 8260B	
Bromochloromethane	ND	1.0	"	"	"	"	"	"	
Bromodichloromethane	ND	1.0	"	"	"	"	"	"	
Bromoform	ND	1.0	"	"	"	"	"	"	
Bromomethane	ND	1.0	"	"	"	"	"	"	
n-Butylbenzene	1.2	1.0	"	"	"	"	"	"	
sec-Butylbenzene	19	1.0	"	"	"	"	"	"	
tert-Butylbenzene	2.6	1.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"	
Chlorobenzene	ND	1.0	"	"	"	"	"	"	
Chloroethane	2.0	1.0	"	"	"	"	"	"	
Chloroform	ND	1.0	"	"	"	"	"	"	
Chloromethane	ND	1.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
Dibromochloromethane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"	
Dibromomethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	1.2	1.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
1,2-Dichloropropane	15	1.0	"	"	"	"	"	"	

SunStar Laboratories, Inc.

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Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
09/07/12 16:41

LL_702_083112_01
T121518-03 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

1,3-Dichloropropane	ND	1.0	ug/l	1	2090511	09/05/12	09/05/12	EPA 8260B
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"
Isopropylbenzene	43	1.0	"	"	"	"	"	"
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"
Methylene chloride	ND	1.0	"	"	"	"	"	"
Naphthalene	ND	1.0	"	"	"	"	"	"
n-Propylbenzene	40	1.0	"	"	"	"	"	"
Styrene	ND	1.0	"	"	"	"	"	"
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"
Tetrachloroethene	ND	1.0	"	"	"	"	"	"
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"
Trichloroethene	ND	1.0	"	"	"	"	"	"
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"
1,3,5-Trimethylbenzene	2.0	1.0	"	"	"	"	"	"
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"
Vinyl chloride	ND	1.0	"	"	"	"	"	"
Benzene	88	0.50	"	"	"	"	"	"
Toluene	5.9	0.50	"	"	"	"	"	"
Ethylbenzene	1.8	0.50	"	"	"	"	"	"
m,p-Xylene	ND	1.0	"	"	"	"	"	"
o-Xylene	0.94	0.50	"	"	"	"	"	"
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"
Tert-butyl alcohol	ND	10	"	"	"	"	"	"

SunStar Laboratories, Inc.

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Murex 15375 Barranca Parkway, Suite K-101 Irvine CA, 92861	Project: Cenco Project Number: 1003-001-300 Project Manager: Jeremy Squire	Reported: 09/07/12 16:41
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LL_702_083112_01
T121518-03 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Di-isopropyl ether	ND	2.0	ug/l	1	2090511	09/05/12	09/05/12	EPA 8260B	
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	1.0	"	"	"	"	"	"	
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	5.0	"	"	"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		<i>103 %</i>	<i>83.5-119</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	
<i>Surrogate: Dibromofluoromethane</i>		<i>99.0 %</i>	<i>81-136</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	
<i>Surrogate: Toluene-d8</i>		<i>102 %</i>	<i>88.8-117</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	

Murex 15375 Barranca Parkway, Suite K-101 Irvine CA, 92861	Project: Cenco Project Number: 1003-001-300 Project Manager: Jeremy Squire	Reported: 09/07/12 16:41
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LL_702_083112_02
T121518-04 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Purgeable Petroleum Hydrocarbons by EPA 8015C

C6-C12 (GRO)	4300	50	ug/l	1	2090512	09/05/12	09/06/12	EPA 8015C	
Surrogate: 4-Bromofluorobenzene		118 %	72.6-146		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	1.0	ug/l	1	2090511	09/05/12	09/05/12	EPA 8260B	
Bromochloromethane	ND	1.0	"	"	"	"	"	"	
Bromodichloromethane	ND	1.0	"	"	"	"	"	"	
Bromoform	ND	1.0	"	"	"	"	"	"	
Bromomethane	ND	1.0	"	"	"	"	"	"	
n-Butylbenzene	1.2	1.0	"	"	"	"	"	"	
sec-Butylbenzene	21	1.0	"	"	"	"	"	"	
tert-Butylbenzene	2.7	1.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"	
Chlorobenzene	ND	1.0	"	"	"	"	"	"	
Chloroethane	2.1	1.0	"	"	"	"	"	"	
Chloroform	ND	1.0	"	"	"	"	"	"	
Chloromethane	ND	1.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
Dibromochloromethane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"	
Dibromomethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	1.3	1.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
1,2-Dichloropropane	16	1.0	"	"	"	"	"	"	

SunStar Laboratories, Inc.

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Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
09/07/12 16:41

LL_702_083112_02
T121518-04 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

1,3-Dichloropropane	ND	1.0	ug/l	1	2090511	09/05/12	09/05/12	EPA 8260B
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"
Isopropylbenzene	47	1.0	"	"	"	"	"	"
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"
Methylene chloride	ND	1.0	"	"	"	"	"	"
Naphthalene	ND	1.0	"	"	"	"	"	"
n-Propylbenzene	43	1.0	"	"	"	"	"	"
Styrene	ND	1.0	"	"	"	"	"	"
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"
Tetrachloroethene	ND	1.0	"	"	"	"	"	"
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"
Trichloroethene	ND	1.0	"	"	"	"	"	"
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"
1,3,5-Trimethylbenzene	2.1	1.0	"	"	"	"	"	"
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"
Vinyl chloride	ND	1.0	"	"	"	"	"	"
Benzene	72	0.50	"	"	"	"	"	"
Toluene	6.2	0.50	"	"	"	"	"	"
Ethylbenzene	1.9	0.50	"	"	"	"	"	"
m,p-Xylene	ND	1.0	"	"	"	"	"	"
o-Xylene	0.99	0.50	"	"	"	"	"	"
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"
Tert-butyl alcohol	ND	10	"	"	"	"	"	"

SunStar Laboratories, Inc.

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Murex 15375 Barranca Parkway, Suite K-101 Irvine CA, 92861	Project: Cenco Project Number: 1003-001-300 Project Manager: Jeremy Squire	Reported: 09/07/12 16:41
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LL_702_083112_02
T121518-04 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Di-isopropyl ether	ND	2.0	ug/l	1	2090511	09/05/12	09/05/12	EPA 8260B	
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	1.0	"	"	"	"	"	"	
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	5.0	"	"	"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		<i>106 %</i>	<i>83.5-119</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	
<i>Surrogate: Dibromofluoromethane</i>		<i>99.1 %</i>	<i>81-136</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	
<i>Surrogate: Toluene-d8</i>		<i>102 %</i>	<i>88.8-117</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	

Murex 15375 Barranca Parkway, Suite K-101 Irvine CA, 92861	Project: Cenco Project Number: 1003-001-300 Project Manager: Jeremy Squire	Reported: 09/07/12 16:41
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LL_703_083112_01
T121518-05 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Purgeable Petroleum Hydrocarbons by EPA 8015C

C6-C12 (GRO)	490	50	ug/l	1	2090512	09/05/12	09/06/12	EPA 8015C	
Surrogate: 4-Bromofluorobenzene	107 %	72.6-146	"	"	"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	1.0	ug/l	1	2090511	09/05/12	09/05/12	EPA 8260B	
Bromochloromethane	ND	1.0	"	"	"	"	"	"	
Bromodichloromethane	ND	1.0	"	"	"	"	"	"	
Bromoform	ND	1.0	"	"	"	"	"	"	
Bromomethane	ND	1.0	"	"	"	"	"	"	
n-Butylbenzene	ND	1.0	"	"	"	"	"	"	
sec-Butylbenzene	1.6	1.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"	
Chlorobenzene	ND	1.0	"	"	"	"	"	"	
Chloroethane	ND	1.0	"	"	"	"	"	"	
Chloroform	ND	1.0	"	"	"	"	"	"	
Chloromethane	ND	1.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
Dibromochloromethane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"	
Dibromomethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethene	1.5	1.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	12	1.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	

SunStar Laboratories, Inc.

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Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
09/07/12 16:41

LL_703_083112_01
T121518-05 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

1,3-Dichloropropane	ND	1.0	ug/l	1	2090511	09/05/12	09/05/12	EPA 8260B
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"
Isopropylbenzene	3.4	1.0	"	"	"	"	"	"
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"
Methylene chloride	ND	1.0	"	"	"	"	"	"
Naphthalene	ND	1.0	"	"	"	"	"	"
n-Propylbenzene	1.2	1.0	"	"	"	"	"	"
Styrene	ND	1.0	"	"	"	"	"	"
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"
Tetrachloroethene	ND	1.0	"	"	"	"	"	"
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"
Trichloroethene	ND	1.0	"	"	"	"	"	"
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"
Vinyl chloride	1.2	1.0	"	"	"	"	"	"
Benzene	39	0.50	"	"	"	"	"	"
Toluene	ND	0.50	"	"	"	"	"	"
Ethylbenzene	ND	0.50	"	"	"	"	"	"
m,p-Xylene	ND	1.0	"	"	"	"	"	"
o-Xylene	ND	0.50	"	"	"	"	"	"
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"
Tert-butyl alcohol	ND	10	"	"	"	"	"	"

SunStar Laboratories, Inc.

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Murex 15375 Barranca Parkway, Suite K-101 Irvine CA, 92861	Project: Cenco Project Number: 1003-001-300 Project Manager: Jeremy Squire	Reported: 09/07/12 16:41
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**LL_703_083112_01
T121518-05 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Di-isopropyl ether	ND	2.0	ug/l	1	2090511	09/05/12	09/05/12	EPA 8260B	
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	1.0	"	"	"	"	"	"	
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	5.0	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		98.8 %	83.5-119		"	"	"	"	
Surrogate: Dibromofluoromethane		97.4 %	81-136		"	"	"	"	
Surrogate: Toluene-d8		95.9 %	88.8-117		"	"	"	"	

Murex 15375 Barranca Parkway, Suite K-101 Irvine CA, 92861	Project: Cenco Project Number: 1003-001-300 Project Manager: Jeremy Squire	Reported: 09/07/12 16:41
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LL_703_083112_02
T121518-06 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Purgeable Petroleum Hydrocarbons by EPA 8015C

C6-C12 (GRO)	430	50	ug/l	1	2090512	09/05/12	09/06/12	EPA 8015C	
Surrogate: 4-Bromofluorobenzene	106 %	72.6-146	"	"	"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	1.0	ug/l	1	2090511	09/05/12	09/06/12	EPA 8260B	
Bromochloromethane	ND	1.0	"	"	"	"	"	"	
Bromodichloromethane	ND	1.0	"	"	"	"	"	"	
Bromoform	ND	1.0	"	"	"	"	"	"	
Bromomethane	ND	1.0	"	"	"	"	"	"	
n-Butylbenzene	ND	1.0	"	"	"	"	"	"	
sec-Butylbenzene	1.5	1.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"	
Chlorobenzene	ND	1.0	"	"	"	"	"	"	
Chloroethane	ND	1.0	"	"	"	"	"	"	
Chloroform	ND	1.0	"	"	"	"	"	"	
Chloromethane	ND	1.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
Dibromochloromethane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"	
Dibromomethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethene	1.5	1.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	13	1.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	

SunStar Laboratories, Inc.

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Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
09/07/12 16:41

LL_703_083112_02
T121518-06 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

1,3-Dichloropropane	ND	1.0	ug/l	1	2090511	09/05/12	09/06/12	EPA 8260B	
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"	
Isopropylbenzene	3.5	1.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"	
Methylene chloride	ND	1.0	"	"	"	"	"	"	
Naphthalene	ND	1.0	"	"	"	"	"	"	
n-Propylbenzene	1.3	1.0	"	"	"	"	"	"	
Styrene	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
Tetrachloroethene	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"	
Trichloroethene	ND	1.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
Vinyl chloride	1.1	1.0	"	"	"	"	"	"	
Benzene	40	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	0.52	0.50	"	"	"	"	"	"	
m,p-Xylene	ND	1.0	"	"	"	"	"	"	
o-Xylene	ND	0.50	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"	
Tert-butyl alcohol	ND	10	"	"	"	"	"	"	

SunStar Laboratories, Inc.

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Murex 15375 Barranca Parkway, Suite K-101 Irvine CA, 92861	Project: Cenco Project Number: 1003-001-300 Project Manager: Jeremy Squire	Reported: 09/07/12 16:41
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LL_703_083112_02
T121518-06 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Di-isopropyl ether	ND	2.0	ug/l	1	2090511	09/05/12	09/06/12	EPA 8260B	
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	1.0	"	"	"	"	"	"	
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	5.0	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		121 %	83.5-119		"	"	"	"	S-GC
Surrogate: Dibromofluoromethane		97.5 %	81-136		"	"	"	"	
Surrogate: Toluene-d8		94.8 %	88.8-117		"	"	"	"	

Murex 15375 Barranca Parkway, Suite K-101 Irvine CA, 92861	Project: Cenco Project Number: 1003-001-300 Project Manager: Jeremy Squire	Reported: 09/07/12 16:41
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LL_704_090412_01
T121518-07 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Purgeable Petroleum Hydrocarbons by EPA 8015C

C6-C12 (GRO)	7800	50	ug/l	1	2090512	09/05/12	09/06/12	EPA 8015C	
<i>Surrogate: 4-Bromofluorobenzene</i>		<i>111 %</i>	<i>72.6-146</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	1.0	ug/l	1	2090511	09/05/12	09/06/12	EPA 8260B	
Bromochloromethane	ND	1.0	"	"	"	"	"	"	
Bromodichloromethane	ND	1.0	"	"	"	"	"	"	
Bromoform	ND	1.0	"	"	"	"	"	"	
Bromomethane	ND	1.0	"	"	"	"	"	"	
n-Butylbenzene	ND	1.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	1.0	"	"	"	"	"	"	
tert-Butylbenzene	2.0	1.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"	
Chlorobenzene	ND	1.0	"	"	"	"	"	"	
Chloroethane	ND	1.0	"	"	"	"	"	"	
Chloroform	ND	1.0	"	"	"	"	"	"	
Chloromethane	ND	1.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
Dibromochloromethane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"	
Dibromomethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethane	2.6	1.0	"	"	"	"	"	"	
1,2-Dichloroethane	3.4	0.50	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	2.4	1.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	

SunStar Laboratories, Inc.

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Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
09/07/12 16:41

LL_704_090412_01
T121518-07 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

1,3-Dichloropropane	ND	1.0	ug/l	1	2090511	09/05/12	09/06/12	EPA 8260B	
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"	
Isopropylbenzene	78	1.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"	
Methylene chloride	ND	1.0	"	"	"	"	"	"	
Naphthalene	3.6	1.0	"	"	"	"	"	"	
n-Propylbenzene	89	1.0	"	"	"	"	"	"	
Styrene	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
Tetrachloroethene	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"	
Trichloroethene	ND	1.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	260	50	"	50	"	"	"	"	
1,2,4-Trimethylbenzene	670	50	"	"	"	"	"	"	
Vinyl chloride	ND	1.0	"	1	"	"	"	"	
Benzene	580	25	"	50	"	"	"	"	
Toluene	30	0.50	"	1	"	"	"	"	
Ethylbenzene	550	25	"	50	"	"	"	"	
m,p-Xylene	760	50	"	"	"	"	"	"	
o-Xylene	33	0.50	"	1	"	"	"	"	
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"	
Tert-butyl alcohol	24	10	"	"	"	"	"	"	
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"	

SunStar Laboratories, Inc.

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Murex 15375 Barranca Parkway, Suite K-101 Irvine CA, 92861	Project: Cenco Project Number: 1003-001-300 Project Manager: Jeremy Squire	Reported: 09/07/12 16:41
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LL_704_090412_01
T121518-07 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Ethyl tert-butyl ether	ND	2.0	ug/l	1	2090511	09/05/12	09/06/12	EPA 8260B	
Methyl tert-butyl ether	44	1.0	"	"	"	"	"	"	
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	5.0	"	"	"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		105 %	83.5-119		"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		95.6 %	81-136		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		96.0 %	88.8-117		"	"	"	"	

Murex 15375 Barranca Parkway, Suite K-101 Irvine CA, 92861	Project: Cenco Project Number: 1003-001-300 Project Manager: Jeremy Squire	Reported: 09/07/12 16:41
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LL_705_090412_01
T121518-08 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Purgeable Petroleum Hydrocarbons by EPA 8015C

C6-C12 (GRO)	100	50	ug/l	1	2090512	09/05/12	09/06/12	EPA 8015C	
Surrogate: 4-Bromofluorobenzene		98.5 %	72.6-146		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	1.0	ug/l	1	2090511	09/05/12	09/07/12	EPA 8260B	
Bromochloromethane	ND	1.0	"	"	"	"	"	"	
Bromodichloromethane	ND	1.0	"	"	"	"	"	"	
Bromoform	ND	1.0	"	"	"	"	"	"	
Bromomethane	ND	1.0	"	"	"	"	"	"	
n-Butylbenzene	ND	1.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	1.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"	
Chlorobenzene	ND	1.0	"	"	"	"	"	"	
Chloroethane	ND	1.0	"	"	"	"	"	"	
Chloroform	ND	1.0	"	"	"	"	"	"	
Chloromethane	ND	1.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
Dibromochloromethane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"	
Dibromomethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichloroethane	0.51	0.50	"	"	"	"	"	"	
1,1-Dichloroethene	2.0	1.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	13	1.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	

SunStar Laboratories, Inc.

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Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
09/07/12 16:41

LL_705_090412_01
T121518-08 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

1,3-Dichloropropane	ND	1.0	ug/l	1	2090511	09/05/12	09/07/12	EPA 8260B
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"
Isopropylbenzene	ND	1.0	"	"	"	"	"	"
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"
Methylene chloride	ND	1.0	"	"	"	"	"	"
Naphthalene	ND	1.0	"	"	"	"	"	"
n-Propylbenzene	ND	1.0	"	"	"	"	"	"
Styrene	ND	1.0	"	"	"	"	"	"
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"
Tetrachloroethene	ND	1.0	"	"	"	"	"	"
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"
Trichloroethene	ND	1.0	"	"	"	"	"	"
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"
Vinyl chloride	ND	1.0	"	"	"	"	"	"
Benzene	0.79	0.50	"	"	"	"	"	"
Toluene	ND	0.50	"	"	"	"	"	"
Ethylbenzene	ND	0.50	"	"	"	"	"	"
m,p-Xylene	ND	1.0	"	"	"	"	"	"
o-Xylene	ND	0.50	"	"	"	"	"	"
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"
Tert-butyl alcohol	ND	10	"	"	"	"	"	"

SunStar Laboratories, Inc.

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Murex 15375 Barranca Parkway, Suite K-101 Irvine CA, 92861	Project: Cenco Project Number: 1003-001-300 Project Manager: Jeremy Squire	Reported: 09/07/12 16:41
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LL_705_090412_01
T121518-08 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Di-isopropyl ether	ND	2.0	ug/l	1	2090511	09/05/12	09/07/12	EPA 8260B	
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	
Methyl tert-butyl ether	12	1.0	"	"	"	"	"	"	
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	5.0	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		107 %	83.5-119		"	"	"	"	
Surrogate: Dibromofluoromethane		107 %	81-136		"	"	"	"	
Surrogate: Toluene-d8		94.0 %	88.8-117		"	"	"	"	

Murex 15375 Barranca Parkway, Suite K-101 Irvine CA, 92861	Project: Cenco Project Number: 1003-001-300 Project Manager: Jeremy Squire	Reported: 09/07/12 16:41
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LL_706_090412_01
T121518-09 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Purgeable Petroleum Hydrocarbons by EPA 8015C

C6-C12 (GRO)	410	50	ug/l	1	2090512	09/05/12	09/06/12	EPA 8015C
Surrogate: 4-Bromofluorobenzene	93.0 %	72.6-146	"	"	"	"	"	"

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	1.0	ug/l	1	2090511	09/05/12	09/06/12	EPA 8260B
Bromochloromethane	ND	1.0	"	"	"	"	"	"
Bromodichloromethane	ND	1.0	"	"	"	"	"	"
Bromoform	ND	1.0	"	"	"	"	"	"
Bromomethane	ND	1.0	"	"	"	"	"	"
n-Butylbenzene	ND	1.0	"	"	"	"	"	"
sec-Butylbenzene	ND	1.0	"	"	"	"	"	"
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"
Chlorobenzene	ND	1.0	"	"	"	"	"	"
Chloroethane	ND	1.0	"	"	"	"	"	"
Chloroform	ND	1.0	"	"	"	"	"	"
Chloromethane	ND	1.0	"	"	"	"	"	"
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"
Dibromochloromethane	ND	1.0	"	"	"	"	"	"
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"
Dibromomethane	ND	1.0	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"
cis-1,2-Dichloroethene	4.8	1.0	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"
1,2-Dichloropropane	ND	1.0	"	"	"	"	"	"

SunStar Laboratories, Inc.

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Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
09/07/12 16:41

LL_706_090412_01
T121518-09 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

1,3-Dichloropropane	ND	1.0	ug/l	1	2090511	09/05/12	09/06/12	EPA 8260B
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"
Isopropylbenzene	ND	1.0	"	"	"	"	"	"
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"
Methylene chloride	ND	1.0	"	"	"	"	"	"
Naphthalene	ND	1.0	"	"	"	"	"	"
n-Propylbenzene	ND	1.0	"	"	"	"	"	"
Styrene	ND	1.0	"	"	"	"	"	"
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"
Tetrachloroethene	ND	1.0	"	"	"	"	"	"
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"
Trichloroethene	ND	1.0	"	"	"	"	"	"
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"
Vinyl chloride	1.2	1.0	"	"	"	"	"	"
Benzene	12	0.50	"	"	"	"	"	"
Toluene	ND	0.50	"	"	"	"	"	"
Ethylbenzene	ND	0.50	"	"	"	"	"	"
m,p-Xylene	1.2	1.0	"	"	"	"	"	"
o-Xylene	ND	0.50	"	"	"	"	"	"
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"
Tert-butyl alcohol	ND	10	"	"	"	"	"	"

SunStar Laboratories, Inc.

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Murex 15375 Barranca Parkway, Suite K-101 Irvine CA, 92861	Project: Cenco Project Number: 1003-001-300 Project Manager: Jeremy Squire	Reported: 09/07/12 16:41
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**LL_706_090412_01
T121518-09 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Di-isopropyl ether	ND	2.0	ug/l	1	2090511	09/05/12	09/06/12	EPA 8260B	
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	
Methyl tert-butyl ether	5.8	1.0	"	"	"	"	"	"	
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	5.0	"	"	"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		<i>116 %</i>							
<i>Surrogate: Dibromofluoromethane</i>		<i>97.4 %</i>							
<i>Surrogate: Toluene-d8</i>		<i>94.0 %</i>							

Murex 15375 Barranca Parkway, Suite K-101 Irvine CA, 92861	Project: Cenco Project Number: 1003-001-300 Project Manager: Jeremy Squire	Reported: 09/07/12 16:41
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LL_707_090412_01
T121518-10 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Purgeable Petroleum Hydrocarbons by EPA 8015C

C6-C12 (GRO)	6700	50	ug/l	1	2090512	09/05/12	09/06/12	EPA 8015C	
Surrogate: 4-Bromofluorobenzene		115 %	72.6-146		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	1.0	ug/l	1	2090511	09/05/12	09/06/12	EPA 8260B	
Bromochloromethane	ND	1.0	"	"	"	"	"	"	
Bromodichloromethane	ND	1.0	"	"	"	"	"	"	
Bromoform	ND	1.0	"	"	"	"	"	"	
Bromomethane	ND	1.0	"	"	"	"	"	"	
n-Butylbenzene	ND	1.0	"	"	"	"	"	"	
sec-Butylbenzene	13	1.0	"	"	"	"	"	"	
tert-Butylbenzene	1.4	1.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"	
Chlorobenzene	ND	1.0	"	"	"	"	"	"	
Chloroethane	ND	1.0	"	"	"	"	"	"	
Chloroform	ND	1.0	"	"	"	"	"	"	
Chloromethane	ND	1.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
Dibromochloromethane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"	
Dibromomethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichloroethane	1.3	0.50	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	3.8	1.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	

SunStar Laboratories, Inc.

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Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
09/07/12 16:41

LL_707_090412_01
T121518-10 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

1,3-Dichloropropane	ND	1.0	ug/l	1	2090511	09/05/12	09/06/12	EPA 8260B
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"
Isopropylbenzene	29	1.0	"	"	"	"	"	"
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"
Methylene chloride	2.4	1.0	"	"	"	"	"	"
Naphthalene	5.2	1.0	"	"	"	"	"	"
n-Propylbenzene	73	1.0	"	"	"	"	"	"
Styrene	ND	1.0	"	"	"	"	"	"
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"
Tetrachloroethene	ND	1.0	"	"	"	"	"	"
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"
Trichloroethene	ND	1.0	"	"	"	"	"	"
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"
1,3,5-Trimethylbenzene	26	1.0	"	"	"	"	"	"
1,2,4-Trimethylbenzene	55	1.0	"	"	"	"	"	"
Vinyl chloride	1.5	1.0	"	"	"	"	"	"
Benzene	1400	25	"	50	"	"	"	"
Toluene	41	0.50	"	1	"	"	"	"
Ethylbenzene	26	0.50	"	"	"	"	"	"
m,p-Xylene	220	1.0	"	"	"	"	"	"
o-Xylene	29	0.50	"	"	"	"	"	"
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"
Tert-butyl alcohol	ND	10	"	"	"	"	"	"
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"

SunStar Laboratories, Inc.

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Murex 15375 Barranca Parkway, Suite K-101 Irvine CA, 92861	Project: Cenco Project Number: 1003-001-300 Project Manager: Jeremy Squire	Reported: 09/07/12 16:41
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LL_707_090412_01
T121518-10 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Ethyl tert-butyl ether	ND	2.0	ug/l	1	2090511	09/05/12	09/06/12	EPA 8260B	
Methyl tert-butyl ether	9.7	1.0	"	"	"	"	"	"	
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	5.0	"	"	"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		95.0 %	83.5-119		"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		96.6 %	81-136		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		94.1 %	88.8-117		"	"	"	"	

Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
09/07/12 16:41

LL_TB_090412
T121518-11 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	1.0	ug/l	1	2090511	09/05/12	09/07/12	EPA 8260B
Bromochloromethane	ND	1.0	"	"	"	"	"	"
Bromodichloromethane	ND	1.0	"	"	"	"	"	"
Bromoform	ND	1.0	"	"	"	"	"	"
Bromomethane	ND	1.0	"	"	"	"	"	"
n-Butylbenzene	ND	1.0	"	"	"	"	"	"
sec-Butylbenzene	ND	1.0	"	"	"	"	"	"
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"
Chlorobenzene	ND	1.0	"	"	"	"	"	"
Chloroethane	ND	1.0	"	"	"	"	"	"
Chloroform	ND	1.0	"	"	"	"	"	"
Chloromethane	ND	1.0	"	"	"	"	"	"
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"
Dibromochloromethane	ND	1.0	"	"	"	"	"	"
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"
Dibromomethane	ND	1.0	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"
cis-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"
1,2-Dichloropropane	ND	1.0	"	"	"	"	"	"
1,3-Dichloropropane	ND	1.0	"	"	"	"	"	"
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"

SunStar Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
09/07/12 16:41

LL_TB_090412
T121518-11 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

cis-1,3-Dichloropropene	ND	0.50	ug/l	1	2090511	09/05/12	09/07/12	EPA 8260B	
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"	
Isopropylbenzene	ND	1.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"	
Methylene chloride	ND	1.0	"	"	"	"	"	"	
Naphthalene	ND	1.0	"	"	"	"	"	"	
n-Propylbenzene	ND	1.0	"	"	"	"	"	"	
Styrene	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
Tetrachloroethene	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"	
Trichloroethene	ND	1.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
Vinyl chloride	ND	1.0	"	"	"	"	"	"	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
m,p-Xylene	ND	1.0	"	"	"	"	"	"	
o-Xylene	ND	0.50	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"	
Tert-butyl alcohol	ND	10	"	"	"	"	"	"	
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	1.0	"	"	"	"	"	"	

SunStar Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Murex 15375 Barranca Parkway, Suite K-101 Irvine CA, 92861	Project: Cenco Project Number: 1003-001-300 Project Manager: Jeremy Squire	Reported: 09/07/12 16:41
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**LL_TB_090412
T121518-11 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	5.0	ug/l	1	2090511	09/05/12	09/07/12	EPA 8260B	
Surrogate: 4-Bromofluorobenzene	111 %	83.5-119			"	"	"	"	
Surrogate: Dibromofluoromethane	106 %	81-136			"	"	"	"	
Surrogate: Toluene-d8	93.5 %	88.8-117			"	"	"	"	

Murex 15375 Barranca Parkway, Suite K-101 Irvine CA, 92861	Project: Cenco Project Number: 1003-001-300 Project Manager: Jeremy Squire	Reported: 09/07/12 16:41
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Purgeable Petroleum Hydrocarbons by EPA 8015C - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2090512 - EPA 5030 GC

Blank (2090512-BLK1)

Prepared: 09/05/12 Analyzed: 09/06/12

C6-C12 (GRO)	ND	50	ug/l							
Surrogate 4-Bromofluorobenzene	95.7		"	100		95.7	72.6-146			

LCS (2090512-BS1)

Prepared: 09/05/12 Analyzed: 09/06/12

C6-C12 (GRO)	6110	50	ug/l	5500		111	75-125			
Surrogate 4-Bromofluorobenzene	125		"	100		125	72.6-146			

Matrix Spike (2090512-MS1)

Source: T121518-03

Prepared: 09/05/12 Analyzed: 09/06/12

C6-C12 (GRO)	10400	50	ug/l	5500	1210	167	65-135			QM-07
Surrogate 4-Bromofluorobenzene	129		"	100		129	72.6-146			

Matrix Spike Dup (2090512-MSD1)

Source: T121518-03

Prepared: 09/05/12 Analyzed: 09/06/12

C6-C12 (GRO)	18500	50	ug/l	5500	1210	314	65-135	55.9	20	QM-07
Surrogate 4-Bromofluorobenzene	128		"	100		128	72.6-146			

Murex 15375 Barranca Parkway, Suite K-101 Irvine CA, 92861	Project: Cenco Project Number: 1003-001-300 Project Manager: Jeremy Squire	Reported: 09/07/12 16:41
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Volatile Organic Compounds by EPA Method 8260B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2090511 - EPA 5030 GCMS

Blank (2090511-BLK1)

Prepared & Analyzed: 09/05/12

Bromobenzene	ND	1.0	ug/l
Bromochloromethane	ND	1.0	"
Bromodichloromethane	ND	1.0	"
Bromoform	ND	1.0	"
Bromomethane	ND	1.0	"
n-Butylbenzene	ND	1.0	"
sec-Butylbenzene	ND	1.0	"
tert-Butylbenzene	ND	1.0	"
Carbon tetrachloride	ND	0.50	"
Chlorobenzene	ND	1.0	"
Chloroethane	ND	1.0	"
Chloroform	ND	1.0	"
Chloromethane	ND	1.0	"
2-Chlorotoluene	ND	1.0	"
4-Chlorotoluene	ND	1.0	"
Dibromochloromethane	ND	1.0	"
1,2-Dibromo-3-chloropropane	ND	1.0	"
1,2-Dibromoethane (EDB)	ND	1.0	"
Dibromomethane	ND	1.0	"
1,2-Dichlorobenzene	ND	1.0	"
1,3-Dichlorobenzene	ND	1.0	"
1,4-Dichlorobenzene	ND	1.0	"
Dichlorodifluoromethane	ND	0.50	"
1,1-Dichloroethane	ND	1.0	"
1,2-Dichloroethane	ND	0.50	"
1,1-Dichloroethene	ND	1.0	"
cis-1,2-Dichloroethene	ND	1.0	"
trans-1,2-Dichloroethene	ND	1.0	"
1,2-Dichloropropane	ND	1.0	"
1,3-Dichloropropane	ND	1.0	"
2,2-Dichloropropane	ND	1.0	"
1,1-Dichloropropene	ND	1.0	"
cis-1,3-Dichloropropene	ND	0.50	"
trans-1,3-Dichloropropene	ND	0.50	"
Hexachlorobutadiene	ND	1.0	"
Isopropylbenzene	ND	1.0	"

SunStar Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Murex 15375 Barranca Parkway, Suite K-101 Irvine CA, 92861	Project: Cenco Project Number: 1003-001-300 Project Manager: Jeremy Squire	Reported: 09/07/12 16:41
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Volatile Organic Compounds by EPA Method 8260B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2090511 - EPA 5030 GCMS

Blank (2090511-BLK1)

Prepared & Analyzed: 09/05/12

p-Isopropyltoluene	ND	1.0	ug/l							
Methylene chloride	ND	1.0	"							
Naphthalene	ND	1.0	"							
n-Propylbenzene	ND	1.0	"							
Styrene	ND	1.0	"							
1,1,2,2-Tetrachloroethane	ND	1.0	"							
1,1,1,2-Tetrachloroethane	ND	1.0	"							
Tetrachloroethene	ND	1.0	"							
1,2,3-Trichlorobenzene	ND	1.0	"							
1,2,4-Trichlorobenzene	ND	1.0	"							
1,1,2-Trichloroethane	ND	1.0	"							
1,1,1-Trichloroethane	ND	1.0	"							
Trichloroethene	ND	1.0	"							
Trichlorofluoromethane	ND	1.0	"							
1,2,3-Trichloropropane	ND	1.0	"							
1,3,5-Trimethylbenzene	ND	1.0	"							
1,2,4-Trimethylbenzene	ND	1.0	"							
Vinyl chloride	ND	1.0	"							
Benzene	ND	0.50	"							
Toluene	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
m,p-Xylene	ND	1.0	"							
o-Xylene	ND	0.50	"							
Tert-amyl methyl ether	ND	2.0	"							
Tert-butyl alcohol	ND	10	"							
Di-isopropyl ether	ND	2.0	"							
Ethyl tert-butyl ether	ND	2.0	"							
Methyl tert-butyl ether	ND	1.0	"							
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	5.0	"							
Surrogate 4-Bromofluorobenzene	9.31		"	8.00		116	83.5-119			
Surrogate Dibromofluoromethane	7.92		"	8.00		99.0	81-136			
Surrogate Toluene-d8	7.16		"	8.00		89.5	88.8-117			

SunStar Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Murex	Project: Cenco	Reported:
15375 Barranca Parkway, Suite K-101	Project Number: 1003-001-300	09/07/12 16:41
Irvine CA, 92861	Project Manager: Jeremy Squire	

Volatile Organic Compounds by EPA Method 8260B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2090511 - EPA 5030 GCMS

LCS (2090511-BS1)				Prepared: 09/05/12		Analyzed: 09/06/12				
Chlorobenzene	20.5	1.0	ug/l	20.0		102	75-125			
1,1-Dichloroethene	17.9	1.0	"	20.0		89.6	75-125			
Trichloroethene	18.8	1.0	"	20.0		93.8	75-125			
Benzene	22.0	0.50	"	20.0		110	75-125			
Toluene	20.9	0.50	"	20.0		104	75-125			
Surrogate 4-Bromofluorobenzene	9.39		"	8.00		117	83.5-119			
Surrogate Dibromofluoromethane	7.95		"	8.00		99.4	81-136			
Surrogate Toluene-d8	7.62		"	8.00		95.2	88.8-117			

Matrix Spike (2090511-MS1)				Source: T121518-04		Prepared: 09/05/12		Analyzed: 09/06/12		
Chlorobenzene	22.3	1.0	ug/l	20.0	ND	111	75-125			
1,1-Dichloroethene	19.8	1.0	"	20.0	ND	98.8	75-125			
Trichloroethene	20.7	1.0	"	20.0	ND	104	75-125			
Benzene	72.5	0.50	"	20.0	72.3	0.950	75-125			QM-07
Toluene	28.4	0.50	"	20.0	6.17	111	75-125			
Surrogate 4-Bromofluorobenzene	8.57		"	8.00		107	83.5-119			
Surrogate Dibromofluoromethane	7.96		"	8.00		99.5	81-136			
Surrogate Toluene-d8	7.77		"	8.00		97.1	88.8-117			

Matrix Spike Dup (2090511-MSD1)				Source: T121518-04		Prepared: 09/05/12		Analyzed: 09/06/12		
Chlorobenzene	20.6	1.0	ug/l	20.0	ND	103	75-125	7.74	20	
1,1-Dichloroethene	18.6	1.0	"	20.0	ND	93.0	75-125	6.15	20	
Trichloroethene	19.1	1.0	"	20.0	ND	95.6	75-125	7.98	20	
Benzene	78.4	0.50	"	20.0	72.3	30.4	75-125	7.79	20	QM-07
Toluene	26.6	0.50	"	20.0	6.17	102	75-125	6.68	20	
Surrogate 4-Bromofluorobenzene	8.16		"	8.00		102	83.5-119			
Surrogate Dibromofluoromethane	7.97		"	8.00		99.6	81-136			
Surrogate Toluene-d8	7.68		"	8.00		96.0	88.8-117			

SunStar Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Murex 15375 Barranca Parkway, Suite K-101 Irvine CA, 92861	Project: Cenco Project Number: 1003-001-300 Project Manager: Jeremy Squire	Reported: 09/07/12 16:41
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Notes and Definitions

S-GC Surrogate recovery outside of established control limits. The data was accepted based on valid recovery of the remaining surrogate(s).

QM-07 The spike recovery and or RPD was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

Chain of Custody Record

Date: 9.4.2012

Page: 1 OF 1

Collector: Frane Sosic

Client Project #: 1003-001-300

Batch #: T121518

EDF #:

Sample disposal Instructions:	Disposal @ \$2.00 each	Return to client	Pickup
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SAMPLE RECEIVING REVIEW SHEET

BATCH # T121518

Client Name: Murex

Project: Cenco

Received by: Jan M

Date/Time Received: 9/4/12 1615

Delivered by : ☐ Client ☒ SunStar Courier ☐ GSO ☐ FedEx ☐ Other _____

Total number of coolers received 1 Temp criteria = 6°C > 0°C (no frozen containers)

Temperature: cooler #1 3.0 °C +/- the CF (-0.2°C) = 2.8 °C corrected temperature

cooler #2 _____ °C +/- the CF (-0.2°C) = _____ °C corrected temperature

cooler #3 _____ °C +/- the CF (-0.2°C) = _____ °C corrected temperature

Samples outside temp. but received on ice, w/in 6 hours of final sampling. ☒ Yes ☐ No* ☐ N/A

Custody Seals Intact on Cooler/Sample ☐ Yes ☐ No* ☒ N/A

Sample Containers Intact ☒ Yes ☐ No*

Sample labels match COC ID's ☒ Yes ☐ No*

Total number of containers received match COC ☒ Yes ☐ No*

Proper containers received for analyses requested on COC ☒ Yes ☐ No*

Proper preservative indicated on COC/containers for analyses requested ☒ Yes ☐ No* ☐ N/A

Complete shipment received in good condition with correct temperatures, containers, labels, volumes preservatives and within method specified holding times. ☒ Yes ☐ No*

* Complete Non-Conformance Receiving Sheet if checked

Cooler/Sample Review - Initials and date

Jan M 9/4/12

Comments:



25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

11 September 2012

Jeremy Squire
Murex
15375 Barranca Parkway, Suite K-101
Irvine, CA 92861
RE: Cenco

Enclosed are the results of analyses for samples received by the laboratory on 09/05/12 16:30. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Katherine Shields For Wendy Hsiao
Project Manager

Murex 15375 Barranca Parkway, Suite K-101 Irvine CA, 92861	Project: Cenco Project Number: 1003-001-300 Project Manager: Jeremy Squire	Reported: 09/11/12 15:04
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ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
LL_708_090512_01	T121535-01	Water	09/05/12 09:39	09/05/12 16:30
LL_709_090512_01	T121535-02	Water	09/05/12 13:33	09/05/12 16:30
LL_710_090512_01	T121535-03	Water	09/05/12 15:00	09/05/12 16:30
LL_711_090512_01	T121535-04	Water	09/05/12 16:15	09/05/12 16:30
LL_TB_090512	T121535-05	Water	09/05/12 00:00	09/05/12 16:30

Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
09/11/12 15:04

LL_708_090512_01

T121535-01 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Purgeable Petroleum Hydrocarbons by EPA 8015C

C6-C12 (GRO)	17000	50	ug/l	1	2090705	09/07/12	09/10/12	EPA 8015C
Surrogate: 4-Bromofluorobenzene		116 %	72.6-146		"	"	"	"

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	1.0	ug/l	1	2090703	09/07/12	09/07/12	EPA 8260B
Bromochloromethane	ND	1.0	"	"	"	"	"	"
Bromodichloromethane	ND	1.0	"	"	"	"	"	"
Bromoform	ND	1.0	"	"	"	"	"	"
Bromomethane	ND	1.0	"	"	"	"	"	"
n-Butylbenzene	ND	1.0	"	"	"	"	"	"
sec-Butylbenzene	31	1.0	"	"	"	"	"	"
tert-Butylbenzene	2.4	1.0	"	"	"	"	"	"
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"
Chlorobenzene	8.6	1.0	"	"	"	"	"	"
Chloroethane	ND	1.0	"	"	"	"	"	"
Chloroform	ND	1.0	"	"	"	"	"	"
Chloromethane	ND	1.0	"	"	"	"	"	"
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"
Dibromochloromethane	ND	1.0	"	"	"	"	"	"
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"
Dibromomethane	ND	1.0	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"
cis-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"

SunStar Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
09/11/12 15:04

LL_708_090512_01
T121535-01 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

1,2-Dichloropropane	ND	1.0	ug/l	1	2090703	09/07/12	09/07/12	EPA 8260B	
1,3-Dichloropropane	1.3	1.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"	
Isopropylbenzene	63	1.0	"	"	"	"	"	"	
p-Isopropyltoluene	23	1.0	"	"	"	"	"	"	
Methylene chloride	ND	1.0	"	"	"	"	"	"	
Naphthalene	160	10	"	10	"	"	"	"	
n-Propylbenzene	170	10	"	"	"	"	"	"	
Styrene	ND	1.0	"	1	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
Tetrachloroethene	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"	
Trichloroethene	ND	1.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	520	10	"	10	"	"	"	"	
1,2,4-Trimethylbenzene	1400	10	"	"	"	"	"	"	E
Vinyl chloride	ND	1.0	"	1	"	"	"	"	
Benzene	1400	5.0	"	10	"	"	"	"	E
Toluene	75	0.50	"	1	"	"	"	"	
Ethylbenzene	710	5.0	"	10	"	"	"	"	
m,p-Xylene	1000	10	"	"	"	"	"	"	
o-Xylene	32	0.50	"	1	"	"	"	"	
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"	
Tert-butyl alcohol	ND	10	"	"	"	"	"	"	

SunStar Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Murex 15375 Barranca Parkway, Suite K-101 Irvine CA, 92861	Project: Cenco Project Number: 1003-001-300 Project Manager: Jeremy Squire	Reported: 09/11/12 15:04
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LL_708_090512_01
T121535-01 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Di-isopropyl ether	ND	2.0	ug/l	1	2090703	09/07/12	09/07/12	EPA 8260B	
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	
Methyl tert-butyl ether	390	10	"	10	"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		117 %	83.5-119		"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		76.6 %	81-136		"	"	"	"	S-GC
<i>Surrogate: Toluene-d8</i>		105 %	88.8-117		"	"	"	"	

Murex 15375 Barranca Parkway, Suite K-101 Irvine CA, 92861	Project: Cenco Project Number: 1003-001-300 Project Manager: Jeremy Squire	Reported: 09/11/12 15:04
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LL_709_090512_01
T121535-02 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Purgeable Petroleum Hydrocarbons by EPA 8015C

C6-C12 (GRO)	670	50	ug/l	1	2090705	09/07/12	09/10/12	EPA 8015C
Surrogate: 4-Bromofluorobenzene	117 %	72.6-146	"	"	"	"	"	"

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	1.0	ug/l	1	2090703	09/07/12	09/10/12	EPA 8260B
Bromochloromethane	ND	1.0	"	"	"	"	"	"
Bromodichloromethane	ND	1.0	"	"	"	"	"	"
Bromoform	ND	1.0	"	"	"	"	"	"
Bromomethane	ND	1.0	"	"	"	"	"	"
n-Butylbenzene	1.4	1.0	"	"	"	"	"	"
sec-Butylbenzene	3.0	1.0	"	"	"	"	"	"
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"
Chlorobenzene	ND	1.0	"	"	"	"	"	"
Chloroethane	ND	1.0	"	"	"	"	"	"
Chloroform	ND	1.0	"	"	"	"	"	"
Chloromethane	ND	1.0	"	"	"	"	"	"
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"
Dibromochloromethane	ND	1.0	"	"	"	"	"	"
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"
Dibromomethane	ND	1.0	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"
cis-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"
1,2-Dichloropropane	ND	1.0	"	"	"	"	"	"

SunStar Laboratories, Inc.

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Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
09/11/12 15:04

LL_709_090512_01
T121535-02 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

1,3-Dichloropropane	ND	1.0	ug/l	1	2090703	09/07/12	09/10/12	EPA 8260B
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"
Isopropylbenzene	15	1.0	"	"	"	"	"	"
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"
Methylene chloride	ND	1.0	"	"	"	"	"	"
Naphthalene	12	1.0	"	"	"	"	"	"
n-Propylbenzene	12	1.0	"	"	"	"	"	"
Styrene	ND	1.0	"	"	"	"	"	"
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"
Tetrachloroethene	ND	1.0	"	"	"	"	"	"
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"
Trichloroethene	ND	1.0	"	"	"	"	"	"
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"
1,2,4-Trimethylbenzene	1.2	1.0	"	"	"	"	"	"
Vinyl chloride	ND	1.0	"	"	"	"	"	"
Benzene	ND	0.50	"	"	"	"	"	"
Toluene	0.86	0.50	"	"	"	"	"	"
Ethylbenzene	ND	0.50	"	"	"	"	"	"
m,p-Xylene	1.8	1.0	"	"	"	"	"	"
o-Xylene	0.67	0.50	"	"	"	"	"	"
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"
Tert-butyl alcohol	23	10	"	"	"	"	"	"

SunStar Laboratories, Inc.

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Murex 15375 Barranca Parkway, Suite K-101 Irvine CA, 92861	Project: Cenco Project Number: 1003-001-300 Project Manager: Jeremy Squire	Reported: 09/11/12 15:04
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**LL_709_090512_01
T121535-02 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Di-isopropyl ether	ND	2.0	ug/l	1	2090703	09/07/12	09/10/12	EPA 8260B	
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	
Methyl tert-butyl ether	2.2	1.0	"	"	"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		91.6 %	83.5-119		"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		73.0 %	81-136		"	"	"	"	S-GC
<i>Surrogate: Toluene-d8</i>		93.0 %	88.8-117		"	"	"	"	

Murex 15375 Barranca Parkway, Suite K-101 Irvine CA, 92861	Project: Cenco Project Number: 1003-001-300 Project Manager: Jeremy Squire	Reported: 09/11/12 15:04
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LL_710_090512_01
T121535-03 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Purgeable Petroleum Hydrocarbons by EPA 8015C

C6-C12 (GRO)	100	50	ug/l	1	2090705	09/07/12	09/10/12	EPA 8015C
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>131 %</i>	<i>72.6-146</i>	<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	1.0	ug/l	1	2090703	09/07/12	09/07/12	EPA 8260B
Bromochloromethane	ND	1.0	"	"	"	"	"	"
Bromodichloromethane	ND	1.0	"	"	"	"	"	"
Bromoform	ND	1.0	"	"	"	"	"	"
Bromomethane	ND	1.0	"	"	"	"	"	"
n-Butylbenzene	ND	1.0	"	"	"	"	"	"
sec-Butylbenzene	ND	1.0	"	"	"	"	"	"
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"
Chlorobenzene	ND	1.0	"	"	"	"	"	"
Chloroethane	ND	1.0	"	"	"	"	"	"
Chloroform	ND	1.0	"	"	"	"	"	"
Chloromethane	ND	1.0	"	"	"	"	"	"
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"
Dibromochloromethane	ND	1.0	"	"	"	"	"	"
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"
Dibromomethane	ND	1.0	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
Dichlorodifluoromethane	0.62	0.50	"	"	"	"	"	"
1,1-Dichloroethane	3.9	1.0	"	"	"	"	"	"
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"
1,1-Dichloroethene	56	1.0	"	"	"	"	"	"
cis-1,2-Dichloroethene	16	1.0	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"
1,2-Dichloropropane	ND	1.0	"	"	"	"	"	"

SunStar Laboratories, Inc.

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Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
09/11/12 15:04

LL_710_090512_01
T121535-03 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

1,3-Dichloropropane	ND	1.0	ug/l	1	2090703	09/07/12	09/07/12	EPA 8260B
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"
Isopropylbenzene	ND	1.0	"	"	"	"	"	"
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"
Methylene chloride	ND	1.0	"	"	"	"	"	"
Naphthalene	3.8	1.0	"	"	"	"	"	"
n-Propylbenzene	ND	1.0	"	"	"	"	"	"
Styrene	ND	1.0	"	"	"	"	"	"
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"
Tetrachloroethene	77	1.0	"	"	"	"	"	"
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"
Trichloroethene	91	1.0	"	"	"	"	"	"
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"
1,2,4-Trimethylbenzene	1.0	1.0	"	"	"	"	"	"
Vinyl chloride	1.2	1.0	"	"	"	"	"	"
Benzene	ND	0.50	"	"	"	"	"	"
Toluene	ND	0.50	"	"	"	"	"	"
Ethylbenzene	ND	0.50	"	"	"	"	"	"
m,p-Xylene	ND	1.0	"	"	"	"	"	"
o-Xylene	ND	0.50	"	"	"	"	"	"
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"
Tert-butyl alcohol	ND	10	"	"	"	"	"	"

SunStar Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Murex 15375 Barranca Parkway, Suite K-101 Irvine CA, 92861	Project: Cenco Project Number: 1003-001-300 Project Manager: Jeremy Squire	Reported: 09/11/12 15:04
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LL_710_090512_01
T121535-03 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Di-isopropyl ether	ND	2.0	ug/l	1	2090703	09/07/12	09/07/12	EPA 8260B	
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	1.0	"	"	"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		98.8 %	83.5-119		"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		83.9 %	81-136		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		96.1 %	88.8-117		"	"	"	"	

Murex 15375 Barranca Parkway, Suite K-101 Irvine CA, 92861	Project: Cenco Project Number: 1003-001-300 Project Manager: Jeremy Squire	Reported: 09/11/12 15:04
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LL_711_090512_01
T121535-04 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Purgeable Petroleum Hydrocarbons by EPA 8015C

C6-C12 (GRO)	28000	50	ug/l	1	2090705	09/07/12	09/10/12	EPA 8015C	
Surrogate: 4-Bromofluorobenzene		118 %	72.6-146		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	1.0	ug/l	1	2090703	09/07/12	09/07/12	EPA 8260B	
Bromochloromethane	ND	1.0	"	"	"	"	"	"	
Bromodichloromethane	ND	1.0	"	"	"	"	"	"	
Bromoform	ND	1.0	"	"	"	"	"	"	
Bromomethane	ND	1.0	"	"	"	"	"	"	
n-Butylbenzene	31	1.0	"	"	"	"	"	"	
sec-Butylbenzene	19	1.0	"	"	"	"	"	"	
tert-Butylbenzene	2.0	1.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"	
Chlorobenzene	ND	1.0	"	"	"	"	"	"	
Chloroethane	ND	1.0	"	"	"	"	"	"	
Chloroform	ND	1.0	"	"	"	"	"	"	
Chloromethane	ND	1.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
Dibromochloromethane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"	
Dibromomethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	2.2	1.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	

SunStar Laboratories, Inc.

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Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
09/11/12 15:04

LL_711_090512_01
T121535-04 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

1,3-Dichloropropane	8.4	1.0	ug/l	1	2090703	09/07/12	09/07/12	EPA 8260B	
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"	
Isopropylbenzene	95	1.0	"	"	"	"	"	"	
p-Isopropyltoluene	3.9	1.0	"	"	"	"	"	"	
Methylene chloride	ND	1.0	"	"	"	"	"	"	
Naphthalene	370	10	"	10	"	"	"	"	
n-Propylbenzene	120	1.0	"	1	"	"	"	"	
Styrene	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
Tetrachloroethene	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"	
Trichloroethene	ND	1.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	120	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	720	10	"	10	"	"	"	"	
Vinyl chloride	5.8	1.0	"	1	"	"	"	"	
Benzene	2100	5.0	"	10	"	"	"	"	E
Toluene	2000	5.0	"	"	"	"	"	"	E
Ethylbenzene	640	5.0	"	"	"	"	"	"	
m,p-Xylene	2000	10	"	"	"	"	"	"	
o-Xylene	1100	5.0	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	2.0	"	1	"	"	"	"	
Tert-butyl alcohol	ND	10	"	"	"	"	"	"	
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"	

SunStar Laboratories, Inc.

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Murex 15375 Barranca Parkway, Suite K-101 Irvine CA, 92861	Project: Cenco Project Number: 1003-001-300 Project Manager: Jeremy Squire	Reported: 09/11/12 15:04
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**LL_711_090512_01
T121535-04 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Ethyl tert-butyl ether	ND	2.0	ug/l	1	2090703	09/07/12	09/07/12	EPA 8260B	
Methyl tert-butyl ether	5.9	1.0	"	"	"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		95.5 %	83.5-119		"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		75.6 %	81-136		"	"	"	"	S-GC
<i>Surrogate: Toluene-d8</i>		95.1 %	88.8-117		"	"	"	"	

Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
09/11/12 15:04

LL_TB_090512
T121535-05 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	1.0	ug/l	1	2090703	09/07/12	09/10/12	EPA 8260B
Bromochloromethane	ND	1.0	"	"	"	"	"	"
Bromodichloromethane	ND	1.0	"	"	"	"	"	"
Bromoform	ND	1.0	"	"	"	"	"	"
Bromomethane	ND	1.0	"	"	"	"	"	"
n-Butylbenzene	ND	1.0	"	"	"	"	"	"
sec-Butylbenzene	ND	1.0	"	"	"	"	"	"
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"
Chlorobenzene	ND	1.0	"	"	"	"	"	"
Chloroethane	ND	1.0	"	"	"	"	"	"
Chloroform	ND	1.0	"	"	"	"	"	"
Chloromethane	ND	1.0	"	"	"	"	"	"
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"
Dibromochloromethane	ND	1.0	"	"	"	"	"	"
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"
Dibromomethane	ND	1.0	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"
cis-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"
1,2-Dichloropropane	ND	1.0	"	"	"	"	"	"
1,3-Dichloropropane	ND	1.0	"	"	"	"	"	"
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"

SunStar Laboratories, Inc.

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Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
09/11/12 15:04

LL_TB_090512
T121535-05 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

cis-1,3-Dichloropropene	ND	0.50	ug/l	1	2090703	09/07/12	09/10/12	EPA 8260B	
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"	
Isopropylbenzene	ND	1.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"	
Methylene chloride	ND	1.0	"	"	"	"	"	"	
Naphthalene	ND	1.0	"	"	"	"	"	"	
n-Propylbenzene	ND	1.0	"	"	"	"	"	"	
Styrene	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
Tetrachloroethene	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"	
Trichloroethene	ND	1.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
Vinyl chloride	ND	1.0	"	"	"	"	"	"	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
m,p-Xylene	ND	1.0	"	"	"	"	"	"	
o-Xylene	ND	0.50	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"	
Tert-butyl alcohol	ND	10	"	"	"	"	"	"	
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	1.0	"	"	"	"	"	"	

SunStar Laboratories, Inc.

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Murex 15375 Barranca Parkway, Suite K-101 Irvine CA, 92861	Project: Cenco Project Number: 1003-001-300 Project Manager: Jeremy Squire	Reported: 09/11/12 15:04
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LL_TB_090512
T121535-05 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Surrogate: 4-Bromofluorobenzene	96.2 %	83.5-119	2090703	09/07/12	09/10/12	EPA 8260B
Surrogate: Dibromofluoromethane	91.2 %	81-136	"	"	"	"
Surrogate: Toluene-d8	96.8 %	88.8-117	"	"	"	"

Murex 15375 Barranca Parkway, Suite K-101 Irvine CA, 92861	Project: Cenco Project Number: 1003-001-300 Project Manager: Jeremy Squire	Reported: 09/11/12 15:04
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Purgeable Petroleum Hydrocarbons by EPA 8015C - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2090705 - EPA 5030 GC

Blank (2090705-BLK1)

Prepared: 09/07/12 Analyzed: 09/10/12

C6-C12 (GRO)	ND	50	ug/l							
Surrogate 4-Bromofluorobenzene	129		"	100		129	72.6-146			

LCS (2090705-BS1)

Prepared: 09/07/12 Analyzed: 09/10/12

C6-C12 (GRO)	5610	50	ug/l	5500		102	75-125			
Surrogate 4-Bromofluorobenzene	116		"	100		116	72.6-146			

Matrix Spike (2090705-MS1)

Source: T121540-05

Prepared: 09/07/12 Analyzed: 09/10/12

C6-C12 (GRO)	5520	50	ug/l	5500	22.8	99.9	65-135			
Surrogate 4-Bromofluorobenzene	130		"	100		130	72.6-146			

Matrix Spike Dup (2090705-MSD1)

Source: T121540-05

Prepared: 09/07/12 Analyzed: 09/10/12

C6-C12 (GRO)	5520	50	ug/l	5500	22.8	100	65-135	0.100	20	
Surrogate 4-Bromofluorobenzene	123		"	100		123	72.6-146			

Murex 15375 Barranca Parkway, Suite K-101 Irvine CA, 92861	Project: Cenco Project Number: 1003-001-300 Project Manager: Jeremy Squire	Reported: 09/11/12 15:04
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Volatile Organic Compounds by EPA Method 8260B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2090703 - EPA 5030 GCMS

Blank (2090703-BLK1)

Prepared & Analyzed: 09/07/12

Bromobenzene	ND	1.0	ug/l
Bromochloromethane	ND	1.0	"
Bromodichloromethane	ND	1.0	"
Bromoform	ND	1.0	"
Bromomethane	ND	1.0	"
n-Butylbenzene	ND	1.0	"
sec-Butylbenzene	ND	1.0	"
tert-Butylbenzene	ND	1.0	"
Carbon tetrachloride	ND	0.50	"
Chlorobenzene	ND	1.0	"
Chloroethane	ND	1.0	"
Chloroform	ND	1.0	"
Chloromethane	ND	1.0	"
2-Chlorotoluene	ND	1.0	"
4-Chlorotoluene	ND	1.0	"
Dibromochloromethane	ND	1.0	"
1,2-Dibromo-3-chloropropane	ND	1.0	"
1,2-Dibromoethane (EDB)	ND	1.0	"
Dibromomethane	ND	1.0	"
1,2-Dichlorobenzene	ND	1.0	"
1,3-Dichlorobenzene	ND	1.0	"
1,4-Dichlorobenzene	ND	1.0	"
Dichlorodifluoromethane	ND	0.50	"
1,1-Dichloroethane	ND	1.0	"
1,2-Dichloroethane	ND	0.50	"
1,1-Dichloroethene	ND	1.0	"
cis-1,2-Dichloroethene	ND	1.0	"
trans-1,2-Dichloroethene	ND	1.0	"
1,2-Dichloropropane	ND	1.0	"
1,3-Dichloropropane	ND	1.0	"
2,2-Dichloropropane	ND	1.0	"
1,1-Dichloropropene	ND	1.0	"
cis-1,3-Dichloropropene	ND	0.50	"
trans-1,3-Dichloropropene	ND	0.50	"
Hexachlorobutadiene	ND	1.0	"
Isopropylbenzene	ND	1.0	"

SunStar Laboratories, Inc.

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Murex 15375 Barranca Parkway, Suite K-101 Irvine CA, 92861	Project: Cenco Project Number: 1003-001-300 Project Manager: Jeremy Squire	Reported: 09/11/12 15:04
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Volatile Organic Compounds by EPA Method 8260B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2090703 - EPA 5030 GCMS

Blank (2090703-BLK1)

Prepared & Analyzed: 09/07/12

p-Isopropyltoluene	ND	1.0	ug/l							
Methylene chloride	ND	1.0	"							
Naphthalene	ND	1.0	"							
n-Propylbenzene	ND	1.0	"							
Styrene	ND	1.0	"							
1,1,2,2-Tetrachloroethane	ND	1.0	"							
1,1,1,2-Tetrachloroethane	ND	1.0	"							
Tetrachloroethene	ND	1.0	"							
1,2,3-Trichlorobenzene	ND	1.0	"							
1,2,4-Trichlorobenzene	ND	1.0	"							
1,1,2-Trichloroethane	ND	1.0	"							
1,1,1-Trichloroethane	ND	1.0	"							
Trichloroethene	ND	1.0	"							
Trichlorofluoromethane	ND	1.0	"							
1,2,3-Trichloropropane	ND	1.0	"							
1,3,5-Trimethylbenzene	ND	1.0	"							
1,2,4-Trimethylbenzene	ND	1.0	"							
Vinyl chloride	ND	1.0	"							
Benzene	ND	0.50	"							
Toluene	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
m,p-Xylene	ND	1.0	"							
o-Xylene	ND	0.50	"							
Tert-amyl methyl ether	ND	2.0	"							
Tert-butyl alcohol	ND	10	"							
Di-isopropyl ether	ND	2.0	"							
Ethyl tert-butyl ether	ND	2.0	"							
Methyl tert-butyl ether	ND	1.0	"							
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	5.0	"							
Surrogate 4-Bromofluorobenzene	7.56		"	8.00		94.5	83.5-119			
Surrogate Dibromofluoromethane	6.76		"	8.00		84.5	81-136			
Surrogate Toluene-d8	7.98		"	8.00		99.8	88.8-117			

SunStar Laboratories, Inc.

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Murex 15375 Barranca Parkway, Suite K-101 Irvine CA, 92861	Project: Cenco Project Number: 1003-001-300 Project Manager: Jeremy Squire	Reported: 09/11/12 15:04
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Volatile Organic Compounds by EPA Method 8260B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2090703 - EPA 5030 GCMS

LCS (2090703-BS1)

Prepared & Analyzed: 09/07/12

Chlorobenzene	21.9	1.0	ug/l	20.0		110	75-125			
1,1-Dichloroethene	22.2	1.0	"	20.0		111	75-125			
Trichloroethene	24.1	1.0	"	20.0		120	75-125			
Benzene	22.6	0.50	"	20.0		113	75-125			
Toluene	22.9	0.50	"	20.0		114	75-125			
<i>Surrogate 4-Bromofluorobenzene</i>	<i>8.06</i>		<i>"</i>	<i>8.00</i>		<i>101</i>	<i>83.5-119</i>			
<i>Surrogate Dibromofluoromethane</i>	<i>7.96</i>		<i>"</i>	<i>8.00</i>		<i>99.5</i>	<i>81-136</i>			
<i>Surrogate Toluene-d8</i>	<i>8.06</i>		<i>"</i>	<i>8.00</i>		<i>101</i>	<i>88.8-117</i>			

Matrix Spike (2090703-MS1)

Source: T121540-03

Prepared & Analyzed: 09/07/12

Chlorobenzene	21.3	1.0	ug/l	20.0	ND	106	75-125			
1,1-Dichloroethene	22.0	1.0	"	20.0	ND	110	75-125			
Trichloroethene	21.2	1.0	"	20.0	ND	106	75-125			
Benzene	21.0	0.50	"	20.0	ND	105	75-125			
Toluene	21.3	0.50	"	20.0	ND	106	75-125			
<i>Surrogate 4-Bromofluorobenzene</i>	<i>8.08</i>		<i>"</i>	<i>8.00</i>		<i>101</i>	<i>83.5-119</i>			
<i>Surrogate Dibromofluoromethane</i>	<i>7.60</i>		<i>"</i>	<i>8.00</i>		<i>95.0</i>	<i>81-136</i>			
<i>Surrogate Toluene-d8</i>	<i>8.01</i>		<i>"</i>	<i>8.00</i>		<i>100</i>	<i>88.8-117</i>			

Matrix Spike Dup (2090703-MSD1)

Source: T121540-03

Prepared & Analyzed: 09/07/12

Chlorobenzene	22.3	1.0	ug/l	20.0	ND	112	75-125	4.81	20	
1,1-Dichloroethene	22.4	1.0	"	20.0	ND	112	75-125	2.16	20	
Trichloroethene	22.6	1.0	"	20.0	ND	113	75-125	6.75	20	
Benzene	22.4	0.50	"	20.0	ND	112	75-125	6.91	20	
Toluene	23.1	0.50	"	20.0	ND	116	75-125	8.47	20	
<i>Surrogate 4-Bromofluorobenzene</i>	<i>8.17</i>		<i>"</i>	<i>8.00</i>		<i>102</i>	<i>83.5-119</i>			
<i>Surrogate Dibromofluoromethane</i>	<i>8.14</i>		<i>"</i>	<i>8.00</i>		<i>102</i>	<i>81-136</i>			
<i>Surrogate Toluene-d8</i>	<i>8.03</i>		<i>"</i>	<i>8.00</i>		<i>100</i>	<i>88.8-117</i>			

SunStar Laboratories, Inc.

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Murex 15375 Barranca Parkway, Suite K-101 Irvine CA, 92861	Project: Cenco Project Number: 1003-001-300 Project Manager: Jeremy Squire	Reported: 09/11/12 15:04
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Notes and Definitions

S-GC Surrogate recovery outside of established control limits. The data was accepted based on valid recovery of the remaining surrogate(s).

E The concentration indicated for this analyte is above the calibration range of the instrument. This value should be considered as an estimate as the actual value may be higher.

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

Chain of Custody Record

Date: 9.5.2012
Project Name: CENCO
Collector: Frane Sosic
Batch #: 7121535

Client Project #: 1003-001-300

EDF #: _____

Sample disposal Instructions:	Disposal @ \$2.00 each	Return to client	Pickup
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SAMPLE RECEIVING REVIEW SHEET

BATCH # 7121535

Client Name: MUREX

Project: CENCO

Received by: Sunny

Date/Time Received: 9.5.12 / 16:30

Delivered by: ☐ Client ☒ SunStar Courier ☐ GSO ☐ FedEx ☐ Other _____

Total number of coolers received 0

Temp criteria = 6°C > 0°C (no frozen containers)

Temperature: cooler #1 5.3 °C +/- the CF (- 0.2°C) = 5.1 °C corrected temperature

cooler #2 _____ °C +/- the CF (- 0.2°C) = _____ °C corrected temperature

cooler #3 _____ °C +/- the CF (- 0.2°C) = _____ °C corrected temperature

Samples outside temp. but received on ice, w/in 6 hours of final sampling. ☒ Yes ☐ No* ☐ N/A

Custody Seals Intact on Cooler/Sample ☐ Yes ☐ No* ☒ N/A

Sample Containers Intact ☒ Yes ☐ No*

Sample labels match COC ID's ☒ Yes ☐ No*

Total number of containers received match COC ☒ Yes ☐ No*

Proper containers received for analyses requested on COC ☒ Yes ☐ No*

Proper preservative indicated on COC/containers for analyses requested ☒ Yes ☐ No* ☐ N/A

Complete shipment received in good condition with correct temperatures, containers, labels, volumes preservatives and within method specified holding times. ☒ Yes ☐ No*

* Complete Non-Conformance Receiving Sheet if checked

Cooler/Sample Review - Initials and date SL 9.5.12

Comments:



25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

12 September 2012

Jeremy Squire
Murex
15375 Barranca Parkway, Suite K-101
Irvine, CA 92861
RE: Cenco

Enclosed are the results of analyses for samples received by the laboratory on 09/06/12 16:41. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Katherine Shields

Katherine Shields For Wendy Hsiao
Project Manager

Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
09/12/12 16:54

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
LL_712_090612_01	T121547-01	Water	09/06/12 11:30	09/06/12 16:41
LL_713_090612_01	T121547-02	Water	09/06/12 13:00	09/06/12 16:41
LL_714_090612_01	T121547-03	Water	09/06/12 14:00	09/06/12 16:41
LL_715_090612_01	T121547-04	Water	09/06/12 16:05	09/06/12 16:41
LL_TB_090612	T121547-05	Water	09/06/12 00:00	09/06/12 16:41

SunStar Laboratories, Inc.

Katherine Shields

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Katherine Shields For Wendy Hsiao, Project Manager

Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
09/12/12 16:54

LL_712_090612_01

T121547-01 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Purgeable Petroleum Hydrocarbons by EPA 8015C

C6-C12 (GRO)	10000	50	ug/l	1	2090731	09/07/12	09/11/12	EPA 8015C
Surrogate: 4-Bromofluorobenzene		129 %	72.6-146		"	"	"	"

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	1.0	ug/l	1	2090729	09/07/12	09/11/12	EPA 8260B
Bromochloromethane	ND	1.0	"	"	"	"	"	"
Bromodichloromethane	ND	1.0	"	"	"	"	"	"
Bromoform	ND	1.0	"	"	"	"	"	"
Bromomethane	ND	1.0	"	"	"	"	"	"
n-Butylbenzene	ND	1.0	"	"	"	"	"	"
sec-Butylbenzene	12	1.0	"	"	"	"	"	"
tert-Butylbenzene	1.9	1.0	"	"	"	"	"	"
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"
Chlorobenzene	ND	1.0	"	"	"	"	"	"
Chloroethane	ND	1.0	"	"	"	"	"	"
Chloroform	ND	1.0	"	"	"	"	"	"
Chloromethane	ND	1.0	"	"	"	"	"	"
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"
Dibromochloromethane	ND	1.0	"	"	"	"	"	"
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"
Dibromomethane	ND	1.0	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"
cis-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"

SunStar Laboratories, Inc.

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Katherine Shields

Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
09/12/12 16:54

LL_712_090612_01
T121547-01 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

1,2-Dichloropropane	ND	1.0	ug/l	1	2090729	09/07/12	09/11/12	EPA 8260B
1,3-Dichloropropane	ND	1.0	"	"	"	"	"	"
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"
Isopropylbenzene	50	1.0	"	"	"	"	"	"
p-Isopropyltoluene	1.7	1.0	"	"	"	"	"	"
Methylene chloride	ND	1.0	"	"	"	"	"	"
Naphthalene	49	1.0	"	"	"	"	"	"
n-Propylbenzene	53	1.0	"	"	"	"	"	"
Styrene	ND	1.0	"	"	"	"	"	"
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"
Tetrachloroethene	ND	1.0	"	"	"	"	"	"
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"
Trichloroethene	ND	1.0	"	"	"	"	"	"
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"
1,3,5-Trimethylbenzene	33	1.0	"	"	"	"	"	"
1,2,4-Trimethylbenzene	88	1.0	"	"	"	"	"	"
Vinyl chloride	ND	1.0	"	"	"	"	"	"
Benzene	1100	5.0	"	10	"	"	"	"
Toluene	27	0.50	"	1	"	"	"	"
Ethylbenzene	47	0.50	"	"	"	"	"	"
m,p-Xylene	110	1.0	"	"	"	"	"	"
o-Xylene	40	0.50	"	"	"	"	"	"
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"
Tert-butyl alcohol	97	10	"	"	"	"	"	"

SunStar Laboratories, Inc.

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Katherine Shields

Murex 15375 Barranca Parkway, Suite K-101 Irvine CA, 92861	Project: Cenco Project Number: 1003-001-300 Project Manager: Jeremy Squire	Reported: 09/12/12 16:54
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LL_712_090612_01
T121547-01 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Di-isopropyl ether	ND	2.0	ug/l	1	2090729	09/07/12	09/11/12	EPA 8260B	
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	
Methyl tert-butyl ether	110	1.0	"	"	"	"	"	"	
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	5.0	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		108 %	83.5-119		"	"	"	"	
Surrogate: Dibromofluoromethane		65.2 %	81-136		"	"	"	"	S-GC
Surrogate: Toluene-d8		95.2 %	88.8-117		"	"	"	"	

SunStar Laboratories, Inc.

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Katherine Shields

Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
09/12/12 16:54

LL_713_090612_01
T121547-02 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Purgeable Petroleum Hydrocarbons by EPA 8015C

C6-C12 (GRO)	9600	50	ug/l	1	2090731	09/07/12	09/11/12	EPA 8015C	
Surrogate: 4-Bromofluorobenzene		123 %	72.6-146		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	1.0	ug/l	1	2090729	09/07/12	09/11/12	EPA 8260B	
Bromochloromethane	ND	1.0	"	"	"	"	"	"	
Bromodichloromethane	ND	1.0	"	"	"	"	"	"	
Bromoform	ND	1.0	"	"	"	"	"	"	
Bromomethane	ND	1.0	"	"	"	"	"	"	
n-Butylbenzene	ND	1.0	"	"	"	"	"	"	
sec-Butylbenzene	9.3	1.0	"	"	"	"	"	"	
tert-Butylbenzene	1.2	1.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"	
Chlorobenzene	ND	1.0	"	"	"	"	"	"	
Chloroethane	ND	1.0	"	"	"	"	"	"	
Chloroform	ND	1.0	"	"	"	"	"	"	
Chloromethane	ND	1.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
Dibromochloromethane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"	
Dibromomethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	

SunStar Laboratories, Inc.

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Katherine Shields

Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
09/12/12 16:54

LL_713_090612_01
T121547-02 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

1,3-Dichloropropane	ND	1.0	ug/l	1	2090729	09/07/12	09/11/12	EPA 8260B	
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"	
Isopropylbenzene	54	1.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"	
Methylene chloride	ND	1.0	"	"	"	"	"	"	
Naphthalene	14	1.0	"	"	"	"	"	"	
n-Propylbenzene	66	1.0	"	"	"	"	"	"	
Styrene	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
Tetrachloroethene	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"	
Trichloroethene	ND	1.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
Vinyl chloride	ND	1.0	"	"	"	"	"	"	
Benzene	1600	5.0	"	10	"	"	"	"	E
Toluene	3.5	0.50	"	1	"	"	"	"	
Ethylbenzene	6.4	0.50	"	"	"	"	"	"	
m,p-Xylene	6.8	1.0	"	"	"	"	"	"	
o-Xylene	1.5	0.50	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"	
Tert-butyl alcohol	75	10	"	"	"	"	"	"	
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"	

SunStar Laboratories, Inc.

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Katherine Shields

Murex 15375 Barranca Parkway, Suite K-101 Irvine CA, 92861	Project: Cenco Project Number: 1003-001-300 Project Manager: Jeremy Squire	Reported: 09/12/12 16:54
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LL_713_090612_01
T121547-02 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Ethyl tert-butyl ether	ND	2.0	ug/l	1	2090729	09/07/12	09/11/12	EPA 8260B	
Methyl tert-butyl ether	410	10	"	10	"	"	"	"	
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	5.0	"	1	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		122 %	83.5-119		"	"	"	"	S-GC
Surrogate: Dibromofluoromethane		70.9 %	81-136		"	"	"	"	S-GC
Surrogate: Toluene-d8		96.0 %	88.8-117		"	"	"	"	

SunStar Laboratories, Inc.

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Katherine Shields

Murex 15375 Barranca Parkway, Suite K-101 Irvine CA, 92861	Project: Cenco Project Number: 1003-001-300 Project Manager: Jeremy Squire	Reported: 09/12/12 16:54
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LL_714_090612_01
T121547-03 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Purgeable Petroleum Hydrocarbons by EPA 8015C

C6-C12 (GRO)	500	50	ug/l	1	2090731	09/07/12	09/11/12	EPA 8015C
Surrogate: 4-Bromofluorobenzene	117 %	72.6-146	"	"	"	"	"	"

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	1.0	ug/l	1	2090729	09/07/12	09/11/12	EPA 8260B
Bromochloromethane	ND	1.0	"	"	"	"	"	"
Bromodichloromethane	ND	1.0	"	"	"	"	"	"
Bromoform	ND	1.0	"	"	"	"	"	"
Bromomethane	ND	1.0	"	"	"	"	"	"
n-Butylbenzene	ND	1.0	"	"	"	"	"	"
sec-Butylbenzene	1.3	1.0	"	"	"	"	"	"
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"
Chlorobenzene	ND	1.0	"	"	"	"	"	"
Chloroethane	ND	1.0	"	"	"	"	"	"
Chloroform	ND	1.0	"	"	"	"	"	"
Chloromethane	ND	1.0	"	"	"	"	"	"
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"
Dibromochloromethane	ND	1.0	"	"	"	"	"	"
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"
Dibromomethane	ND	1.0	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"
cis-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"
1,2-Dichloropropane	ND	1.0	"	"	"	"	"	"

SunStar Laboratories, Inc.

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Katherine Shields

Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
09/12/12 16:54

LL_714_090612_01
T121547-03 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

1,3-Dichloropropane	ND	1.0	ug/l	1	2090729	09/07/12	09/11/12	EPA 8260B
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"
Isopropylbenzene	8.2	1.0	"	"	"	"	"	"
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"
Methylene chloride	ND	1.0	"	"	"	"	"	"
Naphthalene	ND	1.0	"	"	"	"	"	"
n-Propylbenzene	1.9	1.0	"	"	"	"	"	"
Styrene	ND	1.0	"	"	"	"	"	"
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"
Tetrachloroethene	ND	1.0	"	"	"	"	"	"
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"
Trichloroethene	ND	1.0	"	"	"	"	"	"
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"
Vinyl chloride	ND	1.0	"	"	"	"	"	"
Benzene	1.6	0.50	"	"	"	"	"	"
Toluene	ND	0.50	"	"	"	"	"	"
Ethylbenzene	ND	0.50	"	"	"	"	"	"
m,p-Xylene	ND	1.0	"	"	"	"	"	"
o-Xylene	ND	0.50	"	"	"	"	"	"
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"
Tert-butyl alcohol	ND	10	"	"	"	"	"	"

SunStar Laboratories, Inc.

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Katherine Shields

Murex 15375 Barranca Parkway, Suite K-101 Irvine CA, 92861	Project: Cenco Project Number: 1003-001-300 Project Manager: Jeremy Squire	Reported: 09/12/12 16:54
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LL_714_090612_01
T121547-03 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Di-isopropyl ether	ND	2.0	ug/l	1	2090729	09/07/12	09/11/12	EPA 8260B	
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	
Methyl tert-butyl ether	2.3	1.0	"	"	"	"	"	"	
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	5.0	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		115 %	83.5-119		"	"	"	"	
Surrogate: Dibromofluoromethane		63.1 %	81-136		"	"	"	"	S-GC
Surrogate: Toluene-d8		95.2 %	88.8-117		"	"	"	"	

SunStar Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Katherine Shields

Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
09/12/12 16:54

LL_715_090612_01
T121547-04 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Purgeable Petroleum Hydrocarbons by EPA 8015C

C6-C12 (GRO)	610	50	ug/l	1	2090731	09/07/12	09/11/12	EPA 8015C	
Surrogate: 4-Bromofluorobenzene		116 %	72.6-146		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	1.0	ug/l	1	2090729	09/07/12	09/11/12	EPA 8260B	
Bromochloromethane	ND	1.0	"	"	"	"	"	"	
Bromodichloromethane	ND	1.0	"	"	"	"	"	"	
Bromoform	ND	1.0	"	"	"	"	"	"	
Bromomethane	ND	1.0	"	"	"	"	"	"	
n-Butylbenzene	ND	1.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	1.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"	
Chlorobenzene	ND	1.0	"	"	"	"	"	"	
Chloroethane	ND	1.0	"	"	"	"	"	"	
Chloroform	ND	1.0	"	"	"	"	"	"	
Chloromethane	ND	1.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
Dibromochloromethane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"	
Dibromomethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	

SunStar Laboratories, Inc.

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Katherine Shields

Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
09/12/12 16:54

LL_715_090612_01
T121547-04 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

1,2-Dichloropropane	ND	1.0	ug/l	1	2090729	09/07/12	09/11/12	EPA 8260B
1,3-Dichloropropane	ND	1.0	"	"	"	"	"	"
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"
Isopropylbenzene	4.0	1.0	"	"	"	"	"	"
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"
Methylene chloride	ND	1.0	"	"	"	"	"	"
Naphthalene	ND	1.0	"	"	"	"	"	"
n-Propylbenzene	6.9	1.0	"	"	"	"	"	"
Styrene	ND	1.0	"	"	"	"	"	"
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"
Tetrachloroethene	ND	1.0	"	"	"	"	"	"
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"
Trichloroethene	ND	1.0	"	"	"	"	"	"
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"
Vinyl chloride	ND	1.0	"	"	"	"	"	"
Benzene	11	0.50	"	"	"	"	"	"
Toluene	0.56	0.50	"	"	"	"	"	"
Ethylbenzene	62	0.50	"	"	"	"	"	"
m,p-Xylene	ND	1.0	"	"	"	"	"	"
o-Xylene	ND	0.50	"	"	"	"	"	"
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"

SunStar Laboratories, Inc.

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Katherine Shields

Murex 15375 Barranca Parkway, Suite K-101 Irvine CA, 92861	Project: Cenco Project Number: 1003-001-300 Project Manager: Jeremy Squire	Reported: 09/12/12 16:54
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LL_715_090612_01
T121547-04 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Tert-butyl alcohol	ND	10	ug/l	1	2090729	09/07/12	09/11/12	EPA 8260B
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"
Methyl tert-butyl ether	1.2	1.0	"	"	"	"	"	"
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	5.0	"	"	"	"	"	"
Surrogate: 4-Bromofluorobenzene	96.4 %	83.5-119	"	"	"	"	"	"
Surrogate: Dibromofluoromethane	102 %	81-136	"	"	"	"	"	"
Surrogate: Toluene-d8	91.2 %	88.8-117	"	"	"	"	"	"

SunStar Laboratories, Inc.

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Katherine Shields

Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
09/12/12 16:54

LL_TB_090612
T121547-05 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	1.0	ug/l	1	2090729	09/07/12	09/11/12	EPA 8260B
Bromochloromethane	ND	1.0	"	"	"	"	"	"
Bromodichloromethane	ND	1.0	"	"	"	"	"	"
Bromoform	ND	1.0	"	"	"	"	"	"
Bromomethane	ND	1.0	"	"	"	"	"	"
n-Butylbenzene	ND	1.0	"	"	"	"	"	"
sec-Butylbenzene	ND	1.0	"	"	"	"	"	"
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"
Chlorobenzene	ND	1.0	"	"	"	"	"	"
Chloroethane	ND	1.0	"	"	"	"	"	"
Chloroform	ND	1.0	"	"	"	"	"	"
Chloromethane	ND	1.0	"	"	"	"	"	"
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"
Dibromochloromethane	ND	1.0	"	"	"	"	"	"
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"
Dibromomethane	ND	1.0	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"
cis-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"
1,2-Dichloropropane	ND	1.0	"	"	"	"	"	"
1,3-Dichloropropane	ND	1.0	"	"	"	"	"	"
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"

SunStar Laboratories, Inc.

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Katherine Shields

Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
09/12/12 16:54

LL_TB_090612
T121547-05 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

cis-1,3-Dichloropropene	ND	0.50	ug/l	1	2090729	09/07/12	09/11/12	EPA 8260B
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"
Isopropylbenzene	ND	1.0	"	"	"	"	"	"
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"
Methylene chloride	ND	1.0	"	"	"	"	"	"
Naphthalene	ND	1.0	"	"	"	"	"	"
n-Propylbenzene	ND	1.0	"	"	"	"	"	"
Styrene	ND	1.0	"	"	"	"	"	"
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"
Tetrachloroethene	ND	1.0	"	"	"	"	"	"
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"
Trichloroethene	ND	1.0	"	"	"	"	"	"
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"
Vinyl chloride	ND	1.0	"	"	"	"	"	"
Benzene	ND	0.50	"	"	"	"	"	"
Toluene	ND	0.50	"	"	"	"	"	"
Ethylbenzene	ND	0.50	"	"	"	"	"	"
m,p-Xylene	ND	1.0	"	"	"	"	"	"
o-Xylene	ND	0.50	"	"	"	"	"	"
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"
Tert-butyl alcohol	ND	10	"	"	"	"	"	"
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"
Methyl tert-butyl ether	ND	1.0	"	"	"	"	"	"

SunStar Laboratories, Inc.

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Katherine Shields

Murex 15375 Barranca Parkway, Suite K-101 Irvine CA, 92861	Project: Cenco Project Number: 1003-001-300 Project Manager: Jeremy Squire	Reported: 09/12/12 16:54
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**LL_TB_090612
T121547-05 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	5.0	ug/l	1	2090729	09/07/12	09/11/12	EPA 8260B	
Surrogate: 4-Bromofluorobenzene	91.8 %	83.5-119			"	"	"	"	
Surrogate: Dibromofluoromethane	94.9 %	81-136			"	"	"	"	
Surrogate: Toluene-d8	91.4 %	88.8-117			"	"	"	"	

SunStar Laboratories, Inc.

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Katherine Shields

Murex 15375 Barranca Parkway, Suite K-101 Irvine CA, 92861	Project: Cenco Project Number: 1003-001-300 Project Manager: Jeremy Squire	Reported: 09/12/12 16:54
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Purgeable Petroleum Hydrocarbons by EPA 8015C - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2090731 - EPA 5030 GC

Blank (2090731-BLK1)

Prepared: 09/07/12 Analyzed: 09/11/12

C6-C12 (GRO)	ND	50	ug/l							
Surrogate 4-Bromofluorobenzene	128		"	100		128	72.6-146			

LCS (2090731-BS1)

Prepared: 09/07/12 Analyzed: 09/11/12

C6-C12 (GRO)	5640	50	ug/l	5500		102	75-125			
Surrogate 4-Bromofluorobenzene	118		"	100		118	72.6-146			

LCS Dup (2090731-BSD1)

Prepared: 09/07/12 Analyzed: 09/11/12

C6-C12 (GRO)	5890	50	ug/l	5500		107	75-125	4.48	20	
Surrogate 4-Bromofluorobenzene	125		"	100		125	72.6-146			

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Katherine Shields

Murex 15375 Barranca Parkway, Suite K-101 Irvine CA, 92861	Project: Cenco Project Number: 1003-001-300 Project Manager: Jeremy Squire	Reported: 09/12/12 16:54
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Volatile Organic Compounds by EPA Method 8260B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2090729 - EPA 5030 GCMS

Blank (2090729-BLK1)

Prepared: 09/07/12 Analyzed: 09/11/12

Bromobenzene	ND	1.0	ug/l
Bromochloromethane	ND	1.0	"
Bromodichloromethane	ND	1.0	"
Bromoform	ND	1.0	"
Bromomethane	ND	1.0	"
n-Butylbenzene	ND	1.0	"
sec-Butylbenzene	ND	1.0	"
tert-Butylbenzene	ND	1.0	"
Carbon tetrachloride	ND	0.50	"
Chlorobenzene	ND	1.0	"
Chloroethane	ND	1.0	"
Chloroform	ND	1.0	"
Chloromethane	ND	1.0	"
2-Chlorotoluene	ND	1.0	"
4-Chlorotoluene	ND	1.0	"
Dibromochloromethane	ND	1.0	"
1,2-Dibromo-3-chloropropane	ND	1.0	"
1,2-Dibromoethane (EDB)	ND	1.0	"
Dibromomethane	ND	1.0	"
1,2-Dichlorobenzene	ND	1.0	"
1,3-Dichlorobenzene	ND	1.0	"
1,4-Dichlorobenzene	ND	1.0	"
Dichlorodifluoromethane	ND	0.50	"
1,1-Dichloroethane	ND	1.0	"
1,2-Dichloroethane	ND	0.50	"
1,1-Dichloroethene	ND	1.0	"
cis-1,2-Dichloroethene	ND	1.0	"
trans-1,2-Dichloroethene	ND	1.0	"
1,2-Dichloropropane	ND	1.0	"
1,3-Dichloropropane	ND	1.0	"
2,2-Dichloropropane	ND	1.0	"
1,1-Dichloropropene	ND	1.0	"
cis-1,3-Dichloropropene	ND	0.50	"
trans-1,3-Dichloropropene	ND	0.50	"
Hexachlorobutadiene	ND	1.0	"
Isopropylbenzene	ND	1.0	"

SunStar Laboratories, Inc.

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Katherine Shields

Murex 15375 Barranca Parkway, Suite K-101 Irvine CA, 92861	Project: Cenco Project Number: 1003-001-300 Project Manager: Jeremy Squire	Reported: 09/12/12 16:54
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Volatile Organic Compounds by EPA Method 8260B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2090729 - EPA 5030 GCMS

Blank (2090729-BLK1)

Prepared: 09/07/12 Analyzed: 09/11/12

p-Isopropyltoluene	ND	1.0	ug/l							
Methylene chloride	ND	1.0	"							
Naphthalene	ND	1.0	"							
n-Propylbenzene	ND	1.0	"							
Styrene	ND	1.0	"							
1,1,2,2-Tetrachloroethane	ND	1.0	"							
1,1,1,2-Tetrachloroethane	ND	1.0	"							
Tetrachloroethene	ND	1.0	"							
1,2,3-Trichlorobenzene	ND	1.0	"							
1,2,4-Trichlorobenzene	ND	1.0	"							
1,1,2-Trichloroethane	ND	1.0	"							
1,1,1-Trichloroethane	ND	1.0	"							
Trichloroethene	ND	1.0	"							
Trichlorofluoromethane	ND	1.0	"							
1,2,3-Trichloropropane	ND	1.0	"							
1,3,5-Trimethylbenzene	ND	1.0	"							
1,2,4-Trimethylbenzene	ND	1.0	"							
Vinyl chloride	ND	1.0	"							
Benzene	ND	0.50	"							
Toluene	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
m,p-Xylene	ND	1.0	"							
o-Xylene	ND	0.50	"							
Tert-amyl methyl ether	ND	2.0	"							
Tert-butyl alcohol	ND	10	"							
Di-isopropyl ether	ND	2.0	"							
Ethyl tert-butyl ether	ND	2.0	"							
Methyl tert-butyl ether	ND	1.0	"							
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	5.0	"							
Surrogate 4-Bromofluorobenzene	7.50		"	8.00		93.8	83.5-119			
Surrogate Dibromofluoromethane	4.83		"	8.00		60.4	81-136			S-GC
Surrogate Toluene-d8	7.07		"	8.00		88.4	88.8-117			S-GC

SunStar Laboratories, Inc.

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Katherine Shields

Murex 15375 Barranca Parkway, Suite K-101 Irvine CA, 92861	Project: Cenco Project Number: 1003-001-300 Project Manager: Jeremy Squire	Reported: 09/12/12 16:54
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Volatile Organic Compounds by EPA Method 8260B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2090729 - EPA 5030 GCMS

LCS (2090729-BS1)

Prepared: 09/07/12 Analyzed: 09/11/12

Chlorobenzene	21.2	1.0	ug/l	20.0		106	75-125			
1,1-Dichloroethene	16.4	1.0	"	20.0		82.2	75-125			
Trichloroethene	19.4	1.0	"	20.0		97.2	75-125			
Benzene	20.3	0.50	"	20.0		101	75-125			
Toluene	19.5	0.50	"	20.0		97.3	75-125			
Surrogate 4-Bromofluorobenzene	8.17		"	8.00		102	83.5-119			
Surrogate Dibromofluoromethane	7.53		"	8.00		94.1	81-136			
Surrogate Toluene-d8	8.04		"	8.00		100	88.8-117			

LCS Dup (2090729-BSD1)

Prepared: 09/07/12 Analyzed: 09/11/12

Chlorobenzene	20.4	1.0	ug/l	20.0		102	75-125	4.04	20	
1,1-Dichloroethene	17.6	1.0	"	20.0		88.0	75-125	6.75	20	
Trichloroethene	19.2	1.0	"	20.0		96.0	75-125	1.24	20	
Benzene	19.1	0.50	"	20.0		95.6	75-125	5.84	20	
Toluene	18.7	0.50	"	20.0		93.4	75-125	4.14	20	
Surrogate 4-Bromofluorobenzene	7.97		"	8.00		99.6	83.5-119			
Surrogate Dibromofluoromethane	7.15		"	8.00		89.4	81-136			
Surrogate Toluene-d8	7.84		"	8.00		98.0	88.8-117			

SunStar Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Katherine Shields

Murex 15375 Barranca Parkway, Suite K-101 Irvine CA, 92861	Project: Cenco Project Number: 1003-001-300 Project Manager: Jeremy Squire	Reported: 09/12/12 16:54
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Notes and Definitions

S-GC Surrogate recovery outside of established control limits. The data was accepted based on valid recovery of the remaining surrogate(s).

E The concentration indicated for this analyte is above the calibration range of the instrument. This value should be considered as an estimate as the actual value may be higher.

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

Katherine Shields

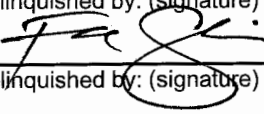
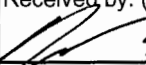
SunStar Laboratories, Inc.
25712 Commercentre Dr
Lake Forest, CA 92630
949-297-5020

Chain of Custody Record

Client: MUREX ENVIRONMENTAL INC.
Address: 2640 Walnut Ave, Unit F
Phone: (714) 508-0800 Fax: (714) 508-0880
Project Manager: Jeremy Squire (714) 604-5836

Date: 9.6.2012
Project Name: CENCO
Collector: Frane Sosic
Batch #: T121547

Page: 1 OF 1
Client Project #: 1003-001-300
EDF #:

Sample ID	Date Sampled	Time	Sample Type	TPHg (8015 M)	VOCs (8260 B)																Total # of containers	Comments/Preservative	Laboratory ID #
LL 712-090612-01	9.6.12	11:30	GW	X	X																6		01
LL 713-090612-01	9.6.12	13:00	GW	X	X																6		02
LL 714-090612-01	9.6.12	14:00	GW	X	X																6		03
LL 715-090612-01	9.6.12	16:05	GW	X	X																6		04
LL TB 090612			Water	X																	2		05
Relinquished by: (signature) 	Date / Time 9.6.2012 1641	Received by: (Sign / Date / Time)  30 9/6/12 1641		Total # of containers 26		Notes 3.2																	
Relinquished by: (signature)	Date / Time	Received by: (Sign / Date / Time)		Chain of Custody seals N/A																			
Relinquished by: (signature)	Date / Time	Received by: (Sign / Date / Time)		Seals intact? Y/N/NA Y																			
Relinquished by: (signature)	Date / Time	Received by: (Sign / Date / Time)		Received good condition/cold Y																			
Turn around time:				Standard																			

Sample disposal Instructions: Disposal @ \$2.00 each _____ Return to client _____ Pickup _____

SAMPLE RECEIVING REVIEW SHEET

BATCH # 7121547

Client Name: MUREX

Project: CENCO

Received by: DAN

Date/Time Received: 9.6.12 / 16:41

Delivered by: ☐ Client ☒ SunStar Courier ☐ GSO ☐ FedEx ☐ Other _____

Total number of coolers received 0

Temp criteria = 6°C > 0°C (no frozen containers)

Temperature: cooler #1 3.4 °C +/- the CF (- 0.2°C) = 3.2 °C corrected temperature

cooler #2 _____ °C +/- the CF (- 0.2°C) = _____ °C corrected temperature

cooler #3 _____ °C +/- the CF (- 0.2°C) = _____ °C corrected temperature

Samples outside temp. but received on ice, w/in 6 hours of final sampling. ☒ Yes ☐ No* ☐ N/A

Custody Seals Intact on Cooler/Sample ☐ Yes ☐ No* ☒ N/A

Sample Containers Intact ☒ Yes ☐ No*

Sample labels match COC ID's ☒ Yes ☐ No*

Total number of containers received match COC ☒ Yes ☐ No*

Proper containers received for analyses requested on COC ☒ Yes ☐ No*

Proper preservative indicated on COC/containers for analyses requested ☒ Yes ☐ No* ☐ N/A

Complete shipment received in good condition with correct temperatures, containers, labels, volumes preservatives and within method specified holding times. ☒ Yes ☐ No*

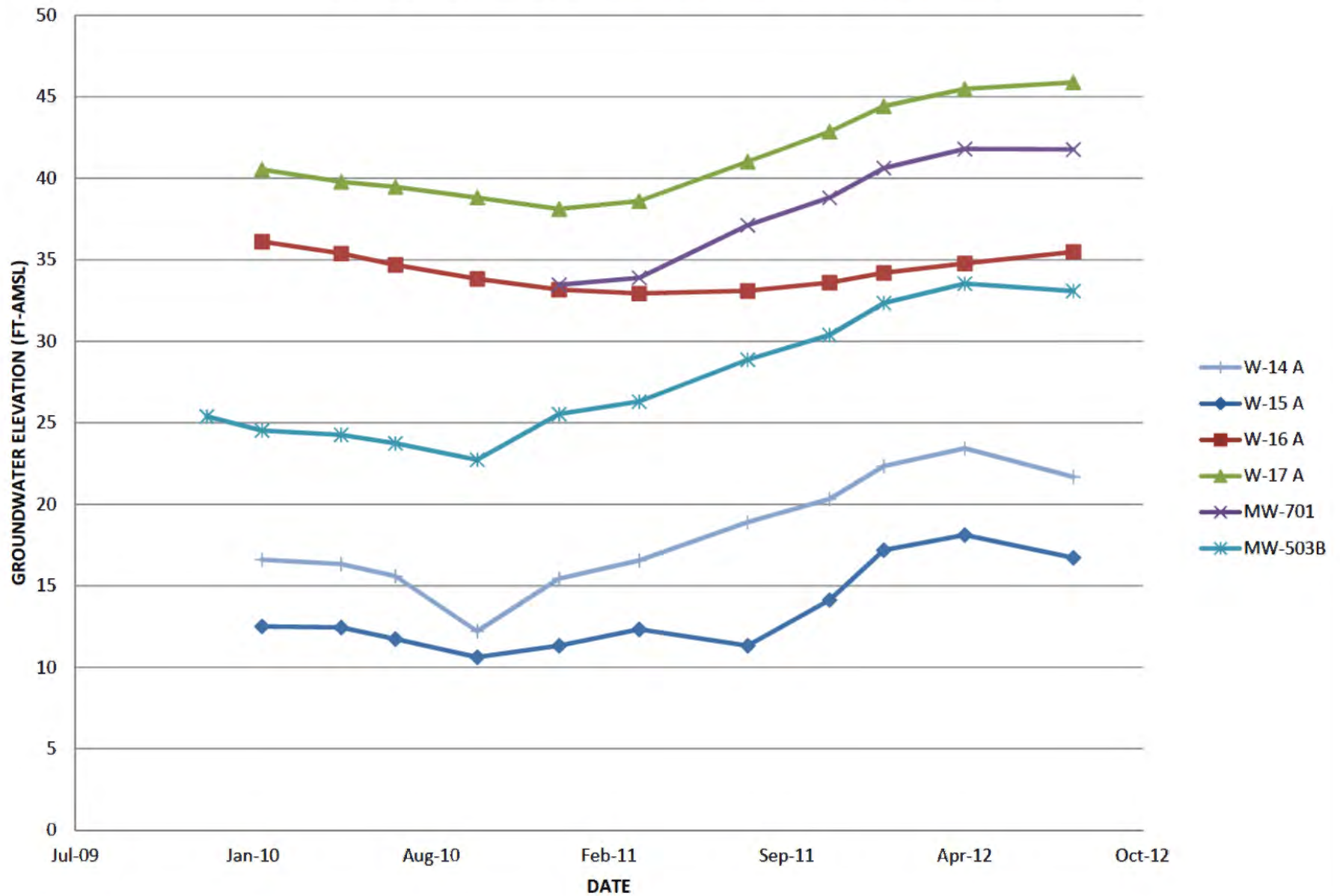
* Complete Non-Conformance Receiving Sheet if checked

Cooler/Sample Review - Initials and date SD 9.7.12

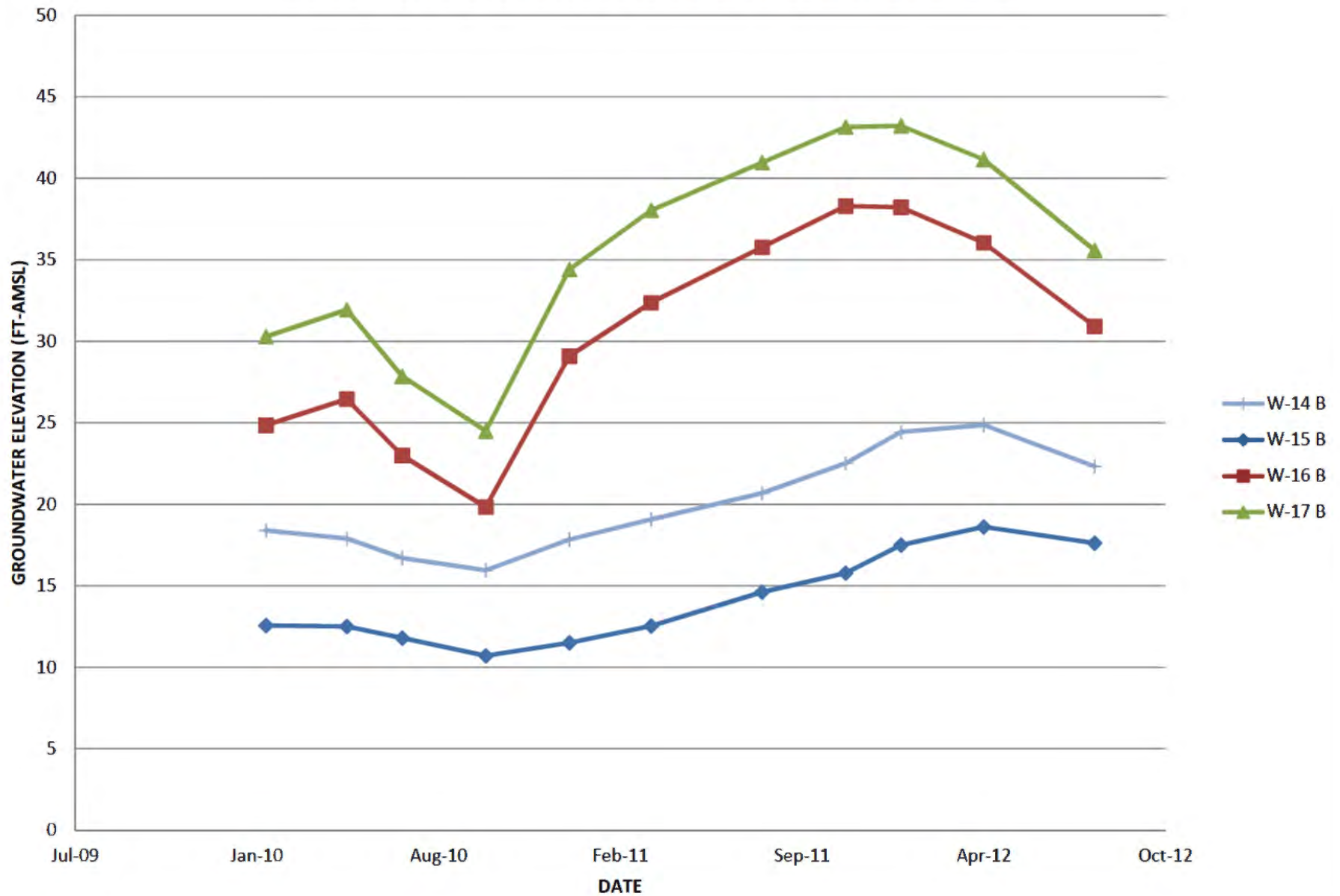
Comments:

Appendix C

A - SCREENED WELLS (APPROX 60-120 FT-BGS)



B - SCREENED WELLS (APPROX 145-170 FT-BGS)



C - SCREENED WELLS (APPROX 185-200 FT-BGS)

